

CREATION CENTRED
IN
CHRIST

VOL. II



TABLES OF VERNAL EQUINOXES
AND NEW MOONS
for 3555 years

1. IN OLD STYLE FROM B.C. 1622 TO A.D. 1934
2. IN NEW STYLE FROM THE ENGLISH REFORMATION OF
THE CALENDAR, A.D. 1752 TO A.D. 1934

*Computed from Prophetic Times in the Book of Daniel
regarded as Astronomical Cycles*

BY

H. GRATTAN GUINNESS, D.D., F.R.A.S

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TESTIMONIALS FROM ASTRONOMERS.

SOME copies of the Tables contained in this volume were printed in 1895 and sent to a few leading astronomers in Great Britain, including Dr. Downing, Superintendent of the Nautical Almanac; Mr. Lynn, long connected with Greenwich Observatory; Dr. Dreyer, of Armagh Observatory, and Mr. Marth, of Markree Observatory. The following testimonials and letters from these astronomers express the results of their examination of the work. Dr. Downing's position, as appointed by Government to superintend the preparation of an annual volume of Astronomical Tables, containing 500 pages of important matter, Mr. Lynn's frequent and valuable contributions to astronomical literature, Dr. Dreyer's experience as formerly Editor of the Astronomical Journal "Copernicus," and as the author of various standard astronomical works, and Mr. Marth's widely known and almost unrivalled ability as a mathematician and astronomer, give ample value to their testimonies.

Testimonial from Dr. Dreyer, F.R.A.S.

"These Tables give the date, hour and minute of every new moon from the year B.C. 1622 to A.D. 1934, as well as the Dominical letters and the time of vernal equinox for every year of this period. Hitherto chronologists who required the time of any new moon have had to calculate it from Largeteau's Tables published in the *Connaissance des Temps pour l'an 1846*; or, if very great accuracy was required, by Oppolzer's *Syzygien-Tafeln für den mond* (Leipzig, 1881); but Dr. Guinness's Tables give the time of new moon by mere inspection without any calculation whatever. In his introduction the author illustrates the accuracy of

his tables by a comparison with the time of the first solar eclipse of each century, taken from Oppolzer's *Canon der Finsternisse*, and shows that his tables never differ from these more than two hours, while the differences frequently amount to only a few minutes.

"I have myself tested the Tables by means of a number of eclipses rigorously computed by Stockwell (eclipses observed in India B.C. 1386, 1301, 1250), by Schjellerup (B.C. 707, 599, and 547, observed in China), and by Newcomb (Arabian eclipses from the middle ages), and with the same result. *These Tables are therefore somewhat more accurate than those of Largeteau, and of course vastly more convenient, as they do not entail any calculation.*

"These Tables have been calculated by means of the luni-solar cycles discovered by the Swiss astronomer, De Cheseaux, about the middle of last century, but hitherto very little noticed by scientific men. The cyclical new moons thus found are given in the tables side by side with the true new moons obtained from them by equating for solar and lunar anomaly. Astronomers will be much interested in the remarkable accuracy obtained in this way by Dr. Guinness.

"The Tables will be of great practical value to chronologists and historians, who can find from them the day of the week and the age of the moon corresponding to any date. Particularly to students of Oriental history they will be invaluable, as the moon is the clock hand of Eastern nations. But they will also in many cases be of great use to astronomers as a ready means of finding, by a mere glance, the whereabouts of the moon in the sky at any time during the last three thousand years.

"J. L. E. DREYER."

"ARMAGH OBSERVATORY,"
April 8th, 1895."

The above testimonial from Dr. Dreyer is reprinted from

the Introduction to Volume I., as some, into whose hands these Tables may come, will not possess a copy of the earlier volume.

**Testimonial from Dr. Downing, F.R.A.S., Superintendent
of the Nautical Almanac.**

NAUTICAL ALMANAC OFFICE,

3, VERULAM BUILDINGS, GRAY'S INN, W.C.,

DEAR SIR,—

March 23rd, 1895.

I have examined your volume of Astronomical Tables containing Dominical letters, Vernal Equinoxes and New and Full Moons for some thirty centuries. I think you have shown that De Cheseaux' cycles of 2300 and 1040 years (by means of which your times are deduced) are not only curiosities of astronomy, but are sufficiently accurate to be turned to practical use for the computation of the positions of the Sun and Moon at distant epochs. The comparison of your results with those of Oppolzer's *Canon der Finsternisse* and other authorities to which you refer in the introduction would of itself be sufficient to justify you in claiming a remarkable degree of accuracy for your Tables. But in addition to this I have examined a great number of your results, and find that a discordance of about three hours between your times and those computed from various Tables that were accessible to me, is the greatest discordance to be apprehended. For any purposes, therefore, for which an error of this magnitude in distant dates is immaterial, your Tables may be used with the greatest confidence.

You have made your Tables considerably more interesting and useful by giving, in addition to the times of Mean, New and Full Moon, those of True New and Full Moon, deduced from the former by the application of the two principal inequalities.

Yours faithfully,

A. M. W. DOWNING.

Letter from W. T. Lynn, Esq., F.R.A.S.

3, SOUTH VALE,

BLACKHEATH, S.E.,

March 25th, 1895.

DEAR SIR,—

I may now safely say that your New Tables are abundantly accurate for all historical and chronological purposes, in many of which they will doubtless be found very useful. They have evidently been computed with great care and accuracy, and the comparison with Oppolzer's Canon was a highly satisfactory check.

Yours very truly,
W. T. LYNN.

Letter from A. Marth, Esq., F.R.A.S.

MARKREE OBSERVATORY,

COLLOONEY, IRELAND,

March 16th, 1895.

DEAR DR. GUINNESS,—

Most gratefully I beg to acknowledge the receipt of your very kind letter and of your new book. As it happens we have been working in different portions of the same field, and I highly appreciate the thoroughness with which you have tilled your portion. As regards the chief aim you have at heart, the proving of Daniel's prophetic 2,300 days to refer to the soli-lunar cycle of 2,300 years, it would have been sufficient to give the list of comparisons on p. xvii. of your Tables. That Daniel's periods were not derived from his understanding science and being in possession of "the learning of the Chaldeans" is plain from the statement that he had to ask for the meaning of the vision including the times mentioned. But if it was not intended that the revelation should be understood till a late time, and that it should remain a dark mystery to some, you will have to

acquiesce in the failure of many truth-seekers to lift the veil. The bulk of your book enables astronomers to know the whereabouts of the moon at any time during these thousands of years. What I have been aiming at, but what I have not yet been able to accomplish except for a portion of that period, is to provide astronomers the data for finding the whereabouts of the old planets. If nothing too serious interferes with my working diligently at it during the next six or eight weeks I hope to get "a Table for finding by means of modern Ephemerides the whereabouts of the old planets during the six centuries A.D. 1400–2000, and also outside of these limits" ready and printed about midsummer. In comparison with your book it will be a tiny publication, the data for each year filling only a single line . . .

With grateful thanks,

Yours sincerely,

A. MARTH.

In a later letter Mr. Marth verifies the correctness of the new moons for the year B.C. 1622, the starting point of the Tables, by means of Schram's Tables. Employing Schram's data, and reducing to Jerusalem civil time, he finds the following :—

| | | | | <i>d</i> | <i>h</i> | <i>m</i> |
|------------|---------|-----------|--------|----------|----------|----------|
| B.C.—1622. | Schram. | New Moon. | April. | 5 | 3 | 1 |
| | Tables. | " | " | 5 | 3 | 88 |
| | " | " | May. | 4 | 10 | 6 |
| | Tables. | " | " | 4 | 11 | 17 |
| | " | " | June. | 2 | 18 | 7 |
| | Schram. | " | " | 2 | 20 | 2 |
| | Tables. | " | " | | | |

The differences are slight for such distant dates computed by wholly different methods.

Mr. Marth has been kind enough to compute a Table by which the *mean* Vernal Equinoxes in this volume may be corrected for *true* Vernal Equinoxes. The differences are inconsiderable for the last twenty-five centuries, ranging in that period from 8 minutes to 1 h. 25 m. He has also calcu-

lated from Leverrier's Tables the length of the Tropical year at different dates, and it will be observed with interest that its length at the commencement of the Christian era, as thus deduced, 395 d. 5 h. 48 m. 56 s. corresponds exactly with its length according to the 1,040 years "Daniel cycle" discovered by De Cheseaux. Both these Tables by Mr. Marth will be found at the end of the Introduction.

I desire to acknowledge the kindness of Dr. Dreyer in reading the proof sheets of the astronomical portions of vol. i. while they were passing through the press. The following extract from one of his letters casts some additional light on the value and accuracy of the Tables.

"I certainly think that your Tables will be found very useful by historians and chronologists, at any rate I *know* that to me personally they will be extremely useful and convenient, as I am particularly fond of studying the history of astronomy, and have not infrequently missed a Table like yours. And it must be confessed that the lunar theory is not as yet in a sufficiently satisfactory state to enable us to calculate the places of the Moon for, say B.C. 1000, with a very much greater accuracy than that of your Tables. Whether ancient eclipses really give a much larger value for the secular acceleration than theory, is also very doubtful; from the mediæval ones Newcomb found only about 8."

I have never seen Cheseaux's book, but hope to see it the next time I am in Edinburgh, as I see there is a copy in the library of the R. Observatory, and I look forward with much interest to the reading of it.

"Once more thanking you for your kindness in presenting me with a copy of your valuable work.

"Believe me,

"Yours very truly,

"J. L. E. DREYER."

INTRODUCTION TO THE TABLES.

A knowledge of the dates of the new and full moons and vernal equinoxes is of primary value in the study of civil and sacred history and chronology.

In the Jewish Calendar the entire series of dates is dependent on the position of the Passover, which in its turn is regulated by the time of the full moon of the vernal equinox. Similarly all the dates in the Christian Ecclesiastical Calendar depend on the position of Easter, which is determined by the time of the first full moon following the vernal equinox. The Jewish feasts of Passover, Pentecost, Tabernacles, etc., were appointed to take place on certain days of the months measuring the sacred year, while these months were reckoned from the lunar phasis, or first appearance of the new moon. Without a knowledge of the exact times of new moons and vernal equinoxes it is impossible to fix or verify the dates of a great variety and multiplicity of events in the long course of Jewish and Christian history. On the other hand, such a knowledge is of considerable practical value in the study of civil history and chronology—Egyptian, Assyrian, Babylonish, Persian, Grecian, Roman, Mohammedan, Indian, Chinese, Early, Mediæval and Modern, in all of which both solar and lunar dates, especially the dates of eclipses, are of constant use and occurrence.

The following tables give the times of all the vernal equinoxes and new moons for 3,555 years, from B.C. 1622, the probable date of the Exodus, the starting point of the Jewish Calendar, to A.D. 1934. For the convenience of students of Sacred Chronology the solar and lunar dates are

stated in Jerusalem civil time, which is 2 h. 21 m. in advance of Greenwich time.

The times of the full moons of all lunar eclipses are added, from B.C. 1207 to A.D. 1934. As solar eclipses invariably coincide with new moons, no separate statement of these is presented. The observed or calculated times of solar and lunar eclipses can be employed to verify the correctness of the new and full moons of these tables. As a matter of fact the tables have been thus verified by a careful comparison with the records of eclipse chronology, and especially with the 12,348 solar and lunar eclipses in Oppolzer's invaluable *Canon der Finsternisse*, from B.C. 1207 to A.D. 1934.

The Dominical letter is given for every year, and a glance at the Dominical Tables appended to this introduction will be sufficient in order to ascertain the day of the week of any of the solar and lunar dates in the tables of equinoxes and new moons.

The method employed in calculating the Tables is as follows: the Tables are based upon the primary natural cycles adjusted to the correction of the Jewish and Christian Calendars.

1. Before their employment of the 19 years' Lunar cycle the Jews used the cycle of 84 years (7×12) in the regulation of their Calendar. The error of this cycle accumulates in 15 repetitions to an entire month. Hence *the primary natural cycle adjusted to its correction is 84×15 , or 1,260 tropical years*, a cycle in which the years and months very closely agree.

2. The Modern Jewish Calendar, especially as dating from Rabbi Hillel's Tables, A.D. 353, is based on the 19 years lunar cycle, which, as discovered by the Greek mathematician Meton, B.C. 432, still bears his name. The error of this cycle is so small (being only 2 h. 4 m.), as to give it an unrivalled position among the lesser lunar cycles, and to justify its employment as the foundation of the calendar in later Greek,

and Christian, as well as in Jewish chronology. *The primary natural cycle adjusted to the correction of the 19 years cycle is that of 2,300 years*, in which the error accumulates to between ten and eleven days, and thus equals the epact of a single year (employing the word "epact" in the sense of the excess of the tropical year above 12 synodic months). The 28,435 months of 121 Metonic cycles exceed 2,299 tropical years by 10 to 11 days, or the epact of the 2,300th year, and with the remaining 12 lunations of that year make 28,447 months, or 2,300 tropical years; a cycle remarkable not only for the closeness of the agreement of months and years, but as the only secular cycle known.

3. The cyclical character of the periods of 1,260 and 2,300 years was discovered more than a century ago by the Swiss astronomer De Cheseaux, and also that *their difference, 1,040 years, forms the most accurate luni-solar cycle known*. De Cheseaux considered this cycle to be absolutely accurate as a cycle of the tropical year, synodic month, and solar day. More modern measures show it to have an error of about $1\frac{1}{2}$ hours; but that error diminishes as we ascend the stream of past time, and disappears altogether at about the date of the Jewish captivity in Babylon, when the length of the solar year was six or seven seconds greater than it is at present; in other words, 1,040 tropical years at the date of the Babylonish captivity very closely agreed with 12,863 lunations, and both with 379,852 solar days.

4. The 2,300 years cycle is not only a cycle of the tropical year and synodic month, but also (as was discovered in the preparation of the present tables) *a cycle of the anomalistic month*, the agreement being remarkable for its accuracy. The 840,057 days of 2,300 years are just 30,487 anomalistic months.

5. The 2,300 years cycle measures 40 days of the "annus magnus" of the revolution of the Solar Perigee with reference to the Equinoxes.

Employing these fundamental natural cycles as the basis of the construction of an extensive calendar, embracing the whole range of Jewish and Christian as well as the larger part of civil history, the problem we have worked out has taken the following form—*given these primary cycles ; let it be required, to deduce from these a complete decursus of calendar times, solar and lunar, for the period of 3,555 years, from B.C. 1622 to A.D. 1934.*

The possibility of such a deduction owes its special interest and importance to the place which these cycles occupy in the volume of Revelation.

The deduction of the Tropical and Anomalistic years, and the Synodic and Anomalistic months from these cycles, is accomplished as follows:—

(1) *Tropical year.*

$$(a) \text{ by } 2300 \text{ y. } 840057 \text{ d.} \div 2300 = 365.24217391 \text{ d.}$$

$$(b) \text{ by } 1040 \text{ y. } 379852 \text{ d.} \div 1040 = 365.24230769 \text{ d.}$$

| | | | | | |
|------|---|---|---|---|----------------------------|
| Mean | . | . | . | . | 365.2422408 |
| | | | | | or 365 d. 5 h. 48 m. 49 s. |
| | | | | | |

(2) *Anomalistic year.*

By 2300 years cy. = 40 days of revol. of Perigee with reference to the Equinoxes.

$$40 \text{ d.} : 365.242 \text{ d.} :: 2300 \text{ y.} : 21000 \text{ y.}$$

$$\text{Trop. y.} + \frac{\text{Trop. y.}}{21000} = 365 \text{ d. } 6 \text{ h. } 13 \text{ m. } 52 \text{ s.}$$

(3) *Synodic month.*

$$\text{By } 1040 \text{ y. cy. } 379852 \text{ d.} \div 12863 = 29 \text{ d. } 12 \text{ h. } 44 \text{ m. } 3 \text{ s.}$$

(4) *Anomalistic month.*

$$\text{By } 2300 \text{ y. cy. } 840057 \text{ d.} \div 30487 = 27 \text{ d. } 13 \text{ h. } 18 \text{ m. } 37 \text{ s.}$$

From the foregoing values the Sun's mean anomaly and the Moon's mean anomaly have been obtained as follows:—

SUN'S MEAN ANOMALY.

$$\text{Sun's Mean Anomaly} = \frac{\text{Synodic month} \times 360}{\text{Tropical year.}} - \text{Long. of Perigee.}$$

MEAN LONGITUDE.

29 53059161937
360

1771 83549716220
8359 177485811 Mean Long.

365.2422408026) 10631.01298297320 (29° 6' 24".23
7304 844816052

3326 1681669212
3287 1801672231

38 987996978
60

233 92799818630
219 14534448156

14 78265370524
60

88 695922231440
73 04844816052

15 647474070920
14 609689632104

1 0377844388160
7304844816502

30729995716580
29219379264208

1510616452372

LONG. OF PERIGEE.

10631.0129 829732

21000 × 365.2422408026

21,000 years

365 242 2408026

7304 844 816052

7670 087.0568546)10631.0129829732(0° 0' 4'' 99

60

637860.7789788920

60

3827164 67387035200

3068084 82274184

759129 851128512

690807 835116914

68822 0160115980

61360 6964548368

74613195567612

| | | | | |
|-----|----|------|----|----------------|
| 29° | 6' | 24'' | 28 | Mean Long. |
| — 0 | 0 | 4' | 99 | Long. Perigee. |

Sun's Mean Anomaly = 29 6 19.29 = Mean Long. — Long. Perigee.

MOON'S MEAN ANOMALY.

$$\text{Moon's Mean Anomaly} = \frac{(\text{Synodic Month} - \text{Anomalistic Month}) \times 360}{\text{Anomalistic month}}$$

$$(\text{Synodic} - \text{Anomalistic}) = \frac{d.}{360} = 1.97599457797$$

$$\begin{array}{r} 11\ 855967467820 \\ 59\ 2798373391 \end{array}$$

$$\text{Anomalistic month} = 27.5545970414 \quad 711.35804806920 (25^\circ 48' 58'' .7198)$$

$$\begin{array}{r} 160\ 2661072412 \\ 137\ 7729852070 \end{array}$$

$$\begin{array}{r} 22\ 4931220342 \\ 60 \end{array}$$

$$\begin{array}{r} 134\ 95873220520 \\ 110\ 2183831656 \end{array}$$

$$\begin{array}{r} 24\ 74034403960 \\ 22\ 04367763312 \end{array}$$

$$\begin{array}{r} 2\ 69666640643 \\ 60 \end{array}$$

$$\begin{array}{r} 16\ 179998438830 \\ 13\ 77729852070 \end{array}$$

$$\begin{array}{r} 2\ 402699918180 \\ 2\ 204367763312 \end{array}$$

$$\begin{array}{r} 1983321548630 \\ 1928821792898 \end{array}$$

$$\begin{array}{r} 544997557820 \\ 275545970414 \end{array}$$

$$\begin{array}{r} 2694515874060 \\ 2479913733726 \end{array}$$

$$2146021403340$$

With the values of the Sun's mean anomaly, and the Moon's mean anomaly thus obtained, the following tables have been calculated:—

(1) *For the present century.* The new moon of March, 1844, being taken as the starting point, or *terminus a quo* of the series.

(2) *For sixty centuries.*

LONG. OF PERIGEE.

10631 · 0129 829732

21000 × 365·2422408026

21,000 years

365 242 2408026

7304 844 816052

7670 087·0568546)10631·0129829732(0° 0' 4"·99
60

637860·7789783920

60

3827164 67887035200

3068034 82274184

759129 851128512

690307 835116914

68822 0160115980

61360 6964548868

7461 3195567612

29° 6' 24"·28 Mean Long.
— 0 0 4·99 Long. Perigee.

Sun's Mean Anomaly = 29 6 19·29 = Mean Long. — Long. Perigee.

MOON'S MEAN ANOMALY.

$$\text{Moon's Mean Anomaly} = \frac{(\text{Synodic Month} - \text{Anomalistic Month}) \times 360}{\text{Anomalistic month}}$$

$$(\text{Synodic} - \text{Anomalistic}) = \frac{d.}{360}$$

$$\begin{array}{r} 11\ 855967467820 \\ 59\ 2798873391 \end{array}$$

$$\text{Anomalistic month} = 27.5545970114 \quad 711.85804806920 (25^\circ\ 48'\ 58'' \cdot 7198) \\ 551\ 091940828$$

$$\begin{array}{r} 160\ 2661072412 \\ 137\ 7729852070 \end{array}$$

$$\begin{array}{r} 22\ 4931220842 \\ 60 \end{array}$$

$$\begin{array}{r} 134\ 95873220520 \\ 110\ 2188881656 \end{array}$$

$$\begin{array}{r} 24\ 74084408960 \\ 22\ 04867763812 \end{array}$$

$$\begin{array}{r} 2\ 69666640648 \\ 60 \end{array}$$

$$\begin{array}{r} 16\ 179998488880 \\ 13\ 77729852070 \end{array}$$

$$\begin{array}{r} 2\ 402699918180 \\ 2\ 204867763812 \end{array}$$

$$\begin{array}{r} 1988321548680 \\ 1928821792898 \end{array}$$

$$\begin{array}{r} 544997557820 \\ 275545970414 \end{array}$$

$$\begin{array}{r} 2694515874060 \\ 2479918738726 \end{array}$$

$$2146021408340$$

With the values of the Sun's mean anomaly, and the Moon's mean anomaly thus obtained, the following tables have been calculated:—

(1) *For the present century.* The new moon of March, 1844, being taken as the starting point, or *terminus a quo* of the series.

(2) *For sixty centuries.*

OLD STYLE.

| Year. | Mean New Moon in March. Astron. Time. Long. Greenwich. | | | | Mean New Moon in March. Civil Time. Long. Jerusalem. | | | | Sun's Mean Anomaly. | | | Moon's Mean Anomaly. | | |
|-------|---|----|----|----|---|----|----|----|------------------------|----|----|-------------------------|----|----|
| | Days | h. | m. | s. | Days | h. | m. | s. | s. | ° | ' | s. | ° | ' |
| 1800 | 18 | 0 | 16 | 25 | 18 | 14 | 37 | 25 | 2 | 23 | 13 | 4 | 8 | 18 |
| 1 | 2 | 9 | 5 | 2 | 2 | 23 | 26 | 2 | 2 | 12 | 29 | 2 | 18 | 6 |
| 2 | 21 | 6 | 37 | 42 | 21 | 20 | 58 | 42 | 3 | 0 | 50 | 1 | 23 | 48 |
| 3 | 10 | 15 | 26 | 20 | 11 | 5 | 47 | 20 | 2 | 20 | 7 | 0 | 3 | 30 |
| 4 | 28 | 12 | 59 | 0 | 29 | 3 | 20 | 0 | 3 | 8 | 29 | 11 | 9 | 7 |
| 5 | 17 | 21 | 47 | 37 | 18 | 12 | 8 | 37 | 2 | 27 | 45 | 9 | 18 | 55 |
| 6 | 7 | 6 | 36 | 15 | 7 | 20 | 57 | 15 | 2 | 17 | 0 | 7 | 28 | 43 |
| 7 | 26 | 4 | 8 | 55 | 26 | 18 | 29 | 55 | 3 | 5 | 23 | 7 | 4 | 19 |
| 8 | 14 | 12 | 57 | 33 | 15 | 3 | 18 | 33 | 2 | 24 | 38 | 5 | 14 | 7 |
| 9 | 8 | 21 | 46 | 10 | 4 | 12 | 7 | 10 | 2 | 13 | 54 | 3 | 23 | 55 |
| 1810 | 22 | 19 | 18 | 50 | 23 | 9 | 39 | 50 | 3 | 2 | 17 | 2 | 29 | 31 |
| 11 | 12 | 4 | 7 | 28 | 12 | 18 | 28 | 28 | 2 | 21 | 32 | 1 | 9 | 19 |
| 12 | 0 | 12 | 56 | 5 | 1 | 3 | 17 | 5 | 2 | 10 | 48 | 11 | 19 | 7 |
| 13 | 19 | 10 | 28 | 45 | 20 | 0 | 49 | 45 | 2 | 29 | 10 | 10 | 24 | 44 |
| 14 | 8 | 19 | 17 | 23 | 9 | 9 | 38 | 23 | 2 | 18 | 26 | 9 | 4 | 31 |
| 15 | 27 | 16 | 50 | 3 | 23 | 7 | 11 | 3 | 3 | 6 | 48 | 8 | 10 | 8 |
| 16 | 16 | 1 | 38 | 41 | 16 | 15 | 59 | 41 | 2 | 26 | 4 | 6 | 19 | 56 |
| 17 | 5 | 10 | 27 | 18 | 6 | 0 | 48 | 18 | 2 | 15 | 20 | 4 | 29 | 44 |
| 18 | 24 | 7 | 59 | 59 | 24 | 22 | 20 | 59 | 3 | 3 | 42 | 4 | 5 | 20 |
| 19 | 13 | 16 | 48 | 37 | 14 | 7 | 9 | 37 | 2 | 22 | 58 | 2 | 15 | 8 |
| 1820 | 2 | 1 | 37 | 14 | 2 | 15 | 58 | 14 | 2 | 12 | 14 | 0 | 24 | 56 |
| 21 | 20 | 23 | 9 | 54 | 21 | 18 | 30 | 54 | 3 | 0 | 36 | 0 | 0 | 33 |
| 22 | 10 | 7 | 58 | 32 | 10 | 22 | 19 | 32 | 2 | 19 | 52 | 11 | 10 | 20 |
| 23 | 29 | 5 | 31 | 12 | 29 | 19 | 52 | 12 | 3 | 8 | 14 | 9 | 15 | 57 |
| 24 | 17 | 14 | 19 | 50 | 18 | 4 | 40 | 50 | 2 | 27 | 30 | 7 | 25 | 45 |
| 25 | 6 | 23 | 8 | 27 | 7 | 13 | 29 | 27 | 2 | 16 | 46 | 6 | 5 | 32 |
| 26 | 25 | 20 | 41 | 7 | 26 | 11 | 2 | 7 | 3 | 5 | 8 | 5 | 11 | 9 |
| 27 | 15 | 5 | 29 | 45 | 15 | 19 | 50 | 45 | 2 | 24 | 24 | 3 | 20 | 57 |
| 28 | 3 | 14 | 18 | 22 | 4 | 4 | 39 | 22 | 2 | 13 | 40 | 2 | 0 | 45 |
| 29 | 22 | 11 | 51 | 2 | 23 | 2 | 12 | 2 | 3 | 2 | 2 | 1 | 6 | 21 |
| 1830 | 11 | 20 | 39 | 40 | 12 | 11 | 0 | 40 | 2 | 21 | 18 | 11 | 16 | 9 |
| 31 | 1 | 5 | 28 | 18 | 1 | 19 | 49 | 18 | 2 | 10 | 34 | 9 | 25 | 57 |
| 32 | 19 | 3 | 0 | 58 | 19 | 17 | 21 | 58 | 2 | 23 | 56 | 9 | 1 | 34 |
| 33 | 8 | 11 | 49 | 36 | 9 | 2 | 10 | 36 | 2 | 18 | 12 | 7 | 11 | 21 |
| 34 | 27 | 9 | 22 | 16 | 27 | 23 | 43 | 16 | 3 | 6 | 34 | 6 | 16 | 58 |
| 35 | 16 | 18 | 10 | 54 | 17 | 8 | 31 | 54 | 2 | 25 | 50 | 4 | 26 | 46 |
| 36 | 5 | 2 | 59 | 31 | 5 | 17 | 20 | 31 | 2 | 15 | 6 | 3 | 6 | 34 |
| 37 | 21 | 0 | 32 | 11 | 24 | 14 | 53 | 11 | 3 | 3 | 28 | 2 | 12 | 10 |
| 38 | 13 | 9 | 20 | 49 | 13 | 23 | 41 | 49 | 2 | 22 | 44 | 0 | 21 | 58 |
| 39 | 2 | 18 | 9 | 26 | 3 | 8 | 30 | 26 | 2 | 12 | 0 | 11 | 1 | 46 |
| 1840 | 20 | 15 | 42 | 6 | 21 | 6 | 3 | 6 | 3 | 0 | 22 | 10 | 7 | 23 |
| 41 | 10 | 0 | 30 | 44 | 10 | 14 | 51 | 44 | 2 | 19 | 38 | 8 | 17 | 10 |
| 42 | 23 | 22 | 3 | 24 | 29 | 12 | 24 | 24 | 3 | 8 | 0 | 7 | 22 | 47 |
| 43 | 18 | 6 | 52 | 1 | 18 | 21 | 13 | 1 | 2 | 27 | 16 | 6 | 2 | 35 |
| 44 | 6 | 15 | 40 | 39 | 7 | 6 | 1 | 39 | 2 | 16 | 32 | 4 | 12 | 22 |
| 45 | 25 | 18 | 13 | 19 | 26 | 3 | 34 | 19 | 3 | 4 | 54 | 3 | 17 | 59 |
| 46 | 14 | 22 | 1 | 57 | 15 | 12 | 22 | 57 | 2 | 24 | 10 | 1 | 27 | 47 |
| 47 | 4 | 6 | 50 | 34 | 4 | 21 | 11 | 34 | 2 | 13 | 25 | 0 | 7 | 55 |
| 48 | 22 | 4 | 23 | 14 | 22 | 18 | 44 | 14 | 3 | 1 | 43 | 11 | 13 | 11 |
| 49 | 11 | 13 | 11 | 52 | 12 | 3 | 32 | 52 | 2 | 21 | 3 | 9 | 22 | 59 |
| 1850 | 0 | 22 | 0 | 29 | 1 | 12 | 21 | 29 | 2 | 10 | 19 | 8 | 2 | 47 |

| Year. | Mean New Moon in March. Astron. Time. Long. Greenwich. | | | | Mean New Moon in March. Civil Time. Long. Jerusalem. | | | | Sun's Mean Anomaly. | | | Moon's Mean Anomaly. | | |
|-------|---|----|----|----|---|----|----|----|------------------------|----|----|-------------------------|----|----|
| | Days | h. | m. | s. | Days | h. | m. | s. | s. | ° | ' | s. | ° | ' |
| 1850 | 0 | 22 | 0 | 29 | 1 | 12 | 21 | 29 | 2 | 10 | 19 | 8 | 2 | 47 |
| 51 | 19 | 19 | 33 | 10 | 20 | 9 | 54 | 10 | 2 | 28 | 42 | 7 | 8 | 24 |
| 52 | 8 | 4 | 21 | 48 | 8 | 18 | 42 | 48 | 2 | 17 | 57 | 5 | 18 | 11 |
| 53 | 27 | 1 | 51 | 23 | 27 | 16 | 15 | 28 | 3 | 6 | 20 | 4 | 23 | 48 |
| 54 | 16 | 10 | 43 | 6 | 17 | 1 | 4 | 6 | 2 | 25 | 35 | 3 | 3 | 36 |
| 55 | 5 | 19 | 31 | 43 | 6 | 9 | 52 | 43 | 2 | 14 | 51 | 1 | 13 | 24 |
| 56 | 23 | 17 | 4 | 23 | 21 | 7 | 25 | 23 | 3 | 3 | 13 | 0 | 19 | 0 |
| 57 | 13 | 1 | 53 | 1 | 13 | 16 | 14 | 1 | 2 | 22 | 29 | 10 | 28 | 48 |
| 58 | 2 | 10 | 41 | 38 | 3 | 1 | 2 | 33 | 2 | 11 | 45 | 9 | 8 | 36 |
| 59 | 21 | 8 | 14 | 18 | 21 | 22 | 35 | 18 | 3 | 0 | 7 | 8 | 14 | 13 |
| 1860 | 9 | 17 | 2 | 56 | 10 | 7 | 23 | 56 | 2 | 19 | 23 | 6 | 24 | 0 |
| 61 | 28 | 14 | 35 | 36 | 29 | 4 | 56 | 36 | 3 | 7 | 45 | 5 | 29 | 37 |
| 62 | 17 | 23 | 24 | 14 | 18 | 13 | 45 | 14 | 2 | 27 | 0 | 4 | 9 | 25 |
| 63 | 7 | 8 | 12 | 51 | 7 | 22 | 33 | 51 | 2 | 16 | 17 | 2 | 19 | 12 |
| 64 | 25 | 5 | 45 | 32 | 25 | 20 | 6 | 32 | 3 | 4 | 39 | 1 | 24 | 49 |
| 65 | 14 | 14 | 31 | 10 | 15 | 4 | 55 | 10 | 2 | 23 | 55 | 0 | 4 | 37 |
| 66 | 3 | 23 | 22 | 47 | 4 | 13 | 43 | 47 | 2 | 13 | 11 | 10 | 14 | 25 |
| 67 | 22 | 20 | 55 | 27 | 23 | 11 | 16 | 27 | 3 | 1 | 33 | 9 | 20 | 1 |
| 68 | 11 | 5 | 44 | 5 | 11 | 20 | 5 | 5 | 2 | 20 | 49 | 7 | 29 | 49 |
| 69 | 0 | 14 | 32 | 42 | 1 | 4 | 53 | 42 | 2 | 10 | 5 | 6 | 9 | 37 |
| 1870 | 19 | 12 | 5 | 22 | 20 | 2 | 26 | 22 | 2 | 28 | 27 | 5 | 15 | 14 |
| 71 | 8 | 20 | 54 | 0 | 9 | 11 | 15 | 0 | 2 | 17 | 43 | 3 | 25 | 1 |
| 72 | 26 | 18 | 26 | 40 | 27 | 8 | 47 | 40 | 3 | 6 | 5 | 3 | 0 | 38 |
| 73 | 16 | 3 | 15 | 18 | 16 | 17 | 36 | 18 | 2 | 25 | 21 | 1 | 10 | 26 |
| 74 | 5 | 12 | 8 | 55 | 6 | 2 | 24 | 55 | 2 | 14 | 37 | 11 | 20 | 14 |
| 75 | 24 | 9 | 36 | 35 | 24 | 23 | 57 | 35 | 3 | 2 | 59 | 10 | 25 | 50 |
| 76 | 12 | 18 | 25 | 13 | 13 | 8 | 46 | 13 | 2 | 22 | 15 | 9 | 5 | 38 |
| 77 | 2 | 3 | 13 | 50 | 2 | 17 | 34 | 50 | 2 | 11 | 31 | 7 | 15 | 26 |
| 78 | 21 | 0 | 46 | 30 | 21 | 15 | 7 | 30 | 2 | 29 | 53 | 6 | 21 | 2 |
| 79 | 10 | 9 | 35 | 7 | 10 | 23 | 56 | 7 | 2 | 19 | 9 | 5 | 0 | 50 |
| 1880 | 28 | 7 | 7 | 48 | 28 | 21 | 23 | 48 | 3 | 7 | 31 | 4 | 6 | 27 |
| 81 | 17 | 15 | 56 | 26 | 18 | 6 | 17 | 26 | 2 | 26 | 47 | 2 | 16 | 15 |
| 82 | 7 | 0 | 45 | 3 | 7 | 15 | 6 | 3 | 2 | 16 | 3 | 0 | 26 | 2 |
| 83 | 25 | 22 | 17 | 43 | 26 | 12 | 33 | 43 | 3 | 4 | 25 | 0 | 1 | 39 |
| 84 | 14 | 7 | 6 | 22 | 14 | 21 | 27 | 22 | 2 | 23 | 41 | 10 | 11 | 27 |
| 85 | 3 | 15 | 54 | 59 | 4 | 6 | 15 | 59 | 2 | 12 | 57 | 8 | 21 | 15 |
| 86 | 22 | 13 | 27 | 39 | 23 | 3 | 48 | 39 | 3 | 1 | 19 | 7 | 26 | 51 |
| 87 | 11 | 22 | 16 | 17 | 12 | 12 | 37 | 17 | 2 | 20 | 35 | 6 | 6 | 39 |
| 88 | 0 | 7 | 4 | 54 | 0 | 21 | 25 | 54 | 2 | 9 | 50 | 4 | 16 | 27 |
| 89 | 19 | 4 | 37 | 35 | 19 | 18 | 53 | 35 | 2 | 28 | 13 | 3 | 22 | 4 |
| 1890 | 8 | 13 | 26 | 13 | 9 | 3 | 47 | 13 | 2 | 17 | 23 | 2 | 1 | 51 |
| 91 | 27 | 10 | 58 | 53 | 28 | 1 | 19 | 53 | 3 | 5 | 51 | 1 | 7 | 28 |
| 92 | 15 | 19 | 47 | 31 | 16 | 10 | 8 | 31 | 2 | 25 | 7 | 11 | 17 | 16 |
| 93 | 5 | 4 | 36 | 8 | 5 | 18 | 57 | 8 | 2 | 14 | 22 | 9 | 27 | 4 |
| 94 | 24 | 2 | 8 | 48 | 24 | 16 | 29 | 48 | 3 | 2 | 45 | 9 | 2 | 40 |
| 95 | 13 | 10 | 57 | 26 | 14 | 1 | 18 | 26 | 2 | 22 | 0 | 7 | 12 | 28 |
| 96 | 1 | 19 | 46 | 4 | 2 | 10 | 7 | 4 | 2 | 11 | 16 | 5 | 22 | 16 |
| 97 | 20 | 17 | 18 | 44 | 21 | 7 | 39 | 44 | 2 | 29 | 38 | 4 | 27 | 52 |
| 98 | 10 | 2 | 7 | 22 | 10 | 16 | 23 | 22 | 2 | 18 | 54 | 3 | 7 | 40 |
| 99 | 28 | 23 | 40 | 2 | 29 | 14 | 1 | 2 | 3 | 7 | 16 | 2 | 13 | 17 |
| 1900 | 17 | 8 | 28 | 39 | 17 | 22 | 49 | 39 | 2 | 26 | 32 | 0 | 23 | 5 |

NEW STYLE.

| Year. | Mean New Moon in March, Astron. Time. Long. Greenwich. | | | | Mean New Moon in March, Civil Time. Long. Jerusalem. | | | | Sun's Mean Anomaly. | | | Moon's Mean Anomaly. | | |
|-------|---|----|----|----|---|----|----|----|------------------------|----|----|-------------------------|----|----|
| | Days | h | m. | s. | Days | h. | m. | s. | s | ° | ' | s | ° | ' |
| 1800 | 25 | 0 | 16 | 25 | 25 | 14 | 37 | 25 | 2 | 23 | 13 | 4 | 8 | 18 |
| 1 | 14 | 9 | 5 | 2 | 14 | 23 | 26 | 2 | 2 | 12 | 29 | 2 | 18 | 6 |
| 2 | 3 | 17 | 53 | 39 | 4 | 8 | 14 | 39 | 2 | 1 | 44 | 0 | 27 | 54 |
| 3 | 22 | 15 | 26 | 20 | 23 | 5 | 47 | 20 | 2 | 20 | 7 | 0 | 8 | 30 |
| 4 | 11 | 0 | 14 | 57 | 11 | 14 | 35 | 57 | 2 | 9 | 22 | 10 | 13 | 18 |
| 5 | 0 | 9 | 3 | 34 | 0 | 23 | 24 | 34 | 1 | 28 | 38 | 8 | 23 | 6 |
| 6 | 19 | 6 | 36 | 15 | 19 | 20 | 57 | 15 | 2 | 17 | 0 | 7 | 23 | 43 |
| 7 | 8 | 15 | 24 | 52 | 9 | 5 | 45 | 52 | 2 | 6 | 16 | 6 | 8 | 30 |
| 8 | 26 | 12 | 57 | 33 | 27 | 3 | 18 | 33 | 2 | 24 | 38 | 5 | 14 | 7 |
| 9 | 15 | 21 | 46 | 10 | 16 | 12 | 7 | 10 | 2 | 13 | 54 | 3 | 23 | 55 |
| 1810 | 5 | 6 | 34 | 47 | 5 | 20 | 55 | 47 | 2 | 3 | 10 | 2 | 3 | 42 |
| 11 | 24 | 4 | 7 | 28 | 24 | 18 | 28 | 23 | 2 | 21 | 32 | 1 | 9 | 19 |
| 12 | 12 | 12 | 56 | 5 | 13 | 3 | 17 | 5 | 2 | 10 | 48 | 11 | 19 | 7 |
| 13 | 1 | 21 | 44 | 42 | 2 | 12 | 5 | 42 | 2 | 0 | 4 | 9 | 23 | 55 |
| 14 | 20 | 19 | 17 | 23 | 21 | 9 | 38 | 23 | 2 | 18 | 26 | 9 | 4 | 31 |
| 15 | 10 | 4 | 6 | 0 | 10 | 18 | 27 | 0 | 2 | 7 | 42 | 7 | 14 | 19 |
| 16 | 28 | 1 | 38 | 41 | 28 | 15 | 59 | 41 | 2 | 26 | 4 | 6 | 19 | 56 |
| 17 | 17 | 10 | 27 | 18 | 18 | 0 | 48 | 18 | 2 | 15 | 20 | 4 | 29 | 44 |
| 18 | 6 | 19 | 15 | 56 | 7 | 9 | 36 | 56 | 2 | 4 | 36 | 3 | 9 | 31 |
| 19 | 25 | 16 | 43 | 37 | 26 | 7 | 9 | 37 | 2 | 22 | 53 | 2 | 15 | 8 |
| 1820 | 14 | 1 | 37 | 14 | 14 | 15 | 58 | 14 | 2 | 12 | 14 | 0 | 24 | 56 |
| 21 | 3 | 10 | 25 | 51 | 4 | 0 | 46 | 51 | 2 | 1 | 30 | 11 | 4 | 44 |
| 22 | 22 | 7 | 58 | 32 | 22 | 22 | 19 | 32 | 2 | 19 | 52 | 10 | 10 | 20 |
| 23 | 11 | 16 | 47 | 9 | 12 | 7 | 8 | 9 | 2 | 9 | 8 | 8 | 20 | 8 |
| 24 | 0 | 1 | 35 | 47 | 0 | 15 | 56 | 47 | 1 | 28 | 24 | 6 | 29 | 56 |
| 25 | 18 | 23 | 8 | 27 | 19 | 13 | 29 | 27 | 2 | 16 | 46 | 6 | 5 | 32 |
| 26 | 8 | 7 | 57 | 4 | 8 | 22 | 18 | 4 | 2 | 6 | 2 | 4 | 15 | 20 |
| 27 | 27 | 5 | 29 | 45 | 27 | 19 | 50 | 45 | 2 | 24 | 24 | 3 | 20 | 57 |
| 28 | 15 | 14 | 18 | 22 | 16 | 4 | 39 | 22 | 2 | 13 | 40 | 2 | 0 | 45 |
| 29 | 4 | 23 | 6 | 59 | 5 | 13 | 27 | 59 | 2 | 2 | 56 | 0 | 10 | 32 |
| 1830 | 23 | 20 | 39 | 41 | 24 | 11 | 0 | 41 | 2 | 21 | 18 | 11 | 16 | 9 |
| 31 | 13 | 5 | 28 | 13 | 13 | 19 | 49 | 13 | 2 | 10 | 34 | 9 | 25 | 57 |
| 32 | 1 | 14 | 16 | 55 | 2 | 4 | 37 | 55 | 1 | 29 | 50 | 8 | 5 | 45 |
| 33 | 20 | 11 | 49 | 36 | 21 | 2 | 10 | 36 | 2 | 18 | 12 | 7 | 11 | 21 |
| 34 | 9 | 20 | 38 | 13 | 10 | 10 | 59 | 13 | 2 | 7 | 28 | 5 | 21 | 9 |
| 35 | 28 | 18 | 10 | 54 | 29 | 8 | 31 | 54 | 2 | 25 | 50 | 4 | 26 | 46 |
| 36 | 17 | 2 | 59 | 31 | 17 | 17 | 20 | 31 | 2 | 15 | 6 | 3 | 6 | 34 |
| 37 | 6 | 11 | 48 | 8 | 7 | 2 | 9 | 8 | 2 | 4 | 22 | 1 | 16 | 21 |
| 38 | 25 | 9 | 20 | 49 | 25 | 23 | 41 | 49 | 2 | 22 | 44 | 0 | 21 | 58 |
| 39 | 14 | 18 | 9 | 26 | 15 | 8 | 30 | 26 | 2 | 12 | 0 | 11 | 1 | 46 |
| 1840 | 3 | 2 | 58 | 3 | 3 | 17 | 19 | 3 | 2 | 1 | 15 | 9 | 11 | 34 |
| 41 | 22 | 0 | 30 | 44 | 22 | 14 | 51 | 44 | 2 | 19 | 33 | 8 | 17 | 10 |
| 42 | 11 | 9 | 19 | 21 | 11 | 23 | 40 | 21 | 2 | 8 | 54 | 6 | 26 | 58 |
| 43 | 0 | 18 | 7 | 58 | 1 | 8 | 28 | 58 | 1 | 28 | 9 | 5 | 6 | 46 |
| 44 | 18 | 15 | 40 | 39 | 19 | 6 | 1 | 39 | 2 | 16 | 32 | 4 | 12 | 22 |
| 45 | 8 | 0 | 29 | 16 | 8 | 14 | 50 | 16 | 2 | 5 | 47 | 2 | 22 | 10 |
| 46 | 26 | 22 | 1 | 57 | 27 | 12 | 22 | 57 | 2 | 24 | 10 | 1 | 27 | 47 |
| 47 | 16 | 6 | 50 | 34 | 16 | 21 | 11 | 34 | 2 | 13 | 25 | 0 | 7 | 35 |
| 48 | 4 | 15 | 39 | 11 | 5 | 6 | 0 | 11 | 2 | 2 | 41 | 10 | 17 | 22 |
| 49 | 23 | 13 | 11 | 52 | 24 | 3 | 32 | 52 | 2 | 21 | 3 | 9 | 22 | 59 |
| 1850 | 12 | 22 | 0 | 29 | 13 | 12 | 21 | 29 | 2 | 10 | 19 | 8 | 2 | 47 |

| Year. | Mean New Moon in March. Astron. Time. Long. Greenwich. | | | | Mean New Moon in March. Civil Time. Long. Jerusalem. | | | | Sun's Mean Anomaly. | Moon's Mean Anomaly. |
|-------|---|----|----|----|---|----|----|----|------------------------|-------------------------|
| | Days | h. | m. | s. | Days | h. | m. | s. | s ° / | s ° / |
| 1850 | 12 | 22 | 0 | 29 | 13 | 12 | 21 | 29 | 2 10 19 | 8 2 47 |
| 51 | 2 | 6 | 49 | 7 | 2 | 21 | 10 | 7 | 1 29 35 | 6 12 35 |
| 52 | 20 | 4 | 21 | 48 | 20 | 18 | 42 | 48 | 2 17 57 | 5 18 11 |
| 53 | 9 | 13 | 10 | 25 | 10 | 3 | 31 | 25 | 2 7 13 | 3 27 59 |
| 54 | 28 | 10 | 43 | 6 | 29 | 1 | 4 | 6 | 2 23 35 | 3 3 36 |
| 55 | 17 | 19 | 31 | 43 | 18 | 9 | 52 | 43 | 2 14 51 | 1 13 24 |
| 56 | 6 | 4 | 20 | 20 | 6 | 18 | 41 | 20 | 2 4 7 | 11 23 11 |
| 57 | 25 | 1 | 53 | 1 | 25 | 16 | 14 | 1 | 2 22 29 | 10 28 48 |
| 58 | 14 | 10 | 41 | 38 | 15 | 1 | 2 | 38 | 2 11 45 | 9 8 36 |
| 59 | 3 | 19 | 30 | 15 | 4 | 9 | 51 | 15 | 2 1 1 | 7 18 21 |
| 1860 | 21 | 17 | 2 | 56 | 22 | 7 | 23 | 56 | 2 19 23 | 6 24 0 |
| 61 | 11 | 1 | 51 | 33 | 11 | 16 | 12 | 33 | 2 8 39 | 5 3 48 |
| 62 | 0 | 10 | 40 | 11 | 1 | 1 | 1 | 11 | 1 27 55 | 3 13 36 |
| 63 | 19 | 8 | 12 | 51 | 19 | 22 | 33 | 51 | 2 16 17 | 2 19 12 |
| 64 | 7 | 17 | 1 | 29 | 8 | 7 | 22 | 29 | 2 5 33 | 0 29 0 |
| 65 | 26 | 14 | 34 | 10 | 27 | 4 | 55 | 10 | 2 23 55 | 0 4 37 |
| 66 | 15 | 23 | 22 | 47 | 16 | 13 | 43 | 47 | 2 13 11 | 10 14 25 |
| 67 | 5 | 8 | 11 | 24 | 5 | 22 | 32 | 24 | 2 2 27 | 8 24 12 |
| 68 | 23 | 5 | 44 | 5 | 23 | 20 | 5 | 5 | 2 20 49 | 7 29 49 |
| 69 | 12 | 14 | 32 | 42 | 13 | 4 | 53 | 42 | 2 10 5 | 6 9 37 |
| 1870 | 1 | 23 | 21 | 19 | 2 | 13 | 42 | 19 | 1 29 21 | 4 19 25 |
| 71 | 20 | 20 | 54 | 0 | 21 | 11 | 15 | 0 | 2 17 43 | 3 25 1 |
| 72 | 9 | 5 | 42 | 37 | 9 | 20 | 3 | 37 | 2 6 59 | 2 4 49 |
| 73 | 23 | 3 | 15 | 18 | 23 | 17 | 36 | 18 | 2 25 21 | 1 10 26 |
| 74 | 17 | 12 | 3 | 55 | 18 | 2 | 24 | 55 | 2 14 37 | 11 20 14 |
| 75 | 6 | 20 | 52 | 32 | 7 | 11 | 13 | 32 | 2 3 53 | 10 0 1 |
| 76 | 21 | 18 | 25 | 13 | 25 | 8 | 46 | 13 | 2 22 15 | 9 5 33 |
| 77 | 14 | 3 | 13 | 50 | 14 | 17 | 31 | 50 | 2 11 31 | 7 15 26 |
| 78 | 3 | 12 | 2 | 27 | 4 | 2 | 23 | 27 | 2 0 47 | 5 25 14 |
| 79 | 22 | 9 | 35 | 7 | 22 | 23 | 56 | 7 | 2 19 9 | 5 0 50 |
| 1880 | 10 | 18 | 23 | 45 | 11 | 8 | 44 | 45 | 2 8 25 | 3 10 34 |
| 81 | 0 | 3 | 12 | 23 | 0 | 17 | 33 | 23 | 1 27 41 | 1 20 26 |
| 82 | 19 | 0 | 45 | 3 | 19 | 15 | 6 | 3 | 2 16 3 | 0 26 2 |
| 83 | 8 | 9 | 33 | 40 | 8 | 23 | 51 | 40 | 2 5 19 | 11 5 50 |
| 84 | 26 | 7 | 6 | 22 | 26 | 21 | 27 | 22 | 2 23 41 | 10 11 27 |
| 85 | 15 | 15 | 54 | 59 | 16 | 6 | 15 | 59 | 2 12 57 | 8 21 15 |
| 86 | 5 | 0 | 43 | 36 | 5 | 15 | 4 | 36 | 2 2 12 | 7 1 2 |
| 87 | 23 | 22 | 16 | 17 | 24 | 12 | 37 | 17 | 2 20 35 | 6 6 39 |
| 88 | 12 | 7 | 4 | 54 | 12 | 21 | 25 | 54 | 2 9 50 | 4 16 27 |
| 89 | 1 | 15 | 53 | 32 | 2 | 6 | 14 | 32 | 1 29 6 | 2 26 15 |
| 1890 | 20 | 13 | 26 | 13 | 21 | 3 | 47 | 13 | 2 17 29 | 2 1 51 |
| 91 | 9 | 22 | 14 | 50 | 10 | 12 | 35 | 50 | 2 6 44 | 0 11 39 |
| 92 | 27 | 19 | 47 | 31 | 28 | 10 | 8 | 31 | 2 25 7 | 11 17 16 |
| 93 | 17 | 4 | 36 | 8 | 17 | 18 | 57 | 8 | 2 14 22 | 9 27 4 |
| 94 | 6 | 13 | 24 | 45 | 7 | 3 | 45 | 45 | 2 3 33 | 8 6 51 |
| 95 | 25 | 10 | 57 | 27 | 26 | 1 | 18 | 27 | 2 22 0 | 7 12 28 |
| 96 | 13 | 19 | 43 | 4 | 14 | 10 | 7 | 4 | 2 11 16 | 5 22 16 |
| 97 | 3 | 4 | 31 | 41 | 3 | 18 | 55 | 41 | 2 0 32 | 4 2 3 |
| 98 | 22 | 2 | 7 | 22 | 22 | 16 | 28 | 22 | 2 18 54 | 3 7 40 |
| 99 | 11 | 10 | 55 | 59 | 12 | 1 | 16 | 59 | 2 8 10 | 1 17 23 |
| 1900 | 0 | 19 | 41 | 36 | 1 | 10 | 5 | 36 | 1 27 26 | 11 27 16 |

FIRST MEAN NEW MOON WITH MEAN ANOMALIES OF
THE SUN AND MOON, FOR SIXTY CENTURIES.

| Lunations. | Julian Years. | First New Moon. | | | | Sun's Mean Anomaly. | | | Moon's Mean Anomaly. | | |
|------------|---------------|-----------------|----|----|----|---------------------|----|----|----------------------|----|----|
| | | Days | h. | m. | s. | S. | ° | ' | S. | ° | ' |
| 1237 | 100 | 4 | 8 | 12 | 14 | 0 | 3 | 20 | 8 | 14 | 47 |
| 2174 | 200 | 8 | 16 | 24 | 29 | 0 | 6 | 40 | 4 | 29 | 33 |
| 3711 | 300 | 13 | 0 | 36 | 43 | 0 | 9 | 59 | 1 | 14 | 20 |
| 4948 | 400 | 17 | 8 | 48 | 58 | 0 | 13 | 19 | 9 | 29 | 6 |
| 6185 | 500 | 21 | 17 | 1 | 12 | 0 | 16 | 39 | 6 | 13 | 53 |
| 7422 | 600 | 26 | 1 | 13 | 26 | 0 | 19 | 59 | 2 | 23 | 40 |
| 8658 | 700 | 0 | 20 | 41 | 38 | 11 | 24 | 12 | 10 | 17 | 37 |
| 9895 | 800 | 5 | 4 | 53 | 52 | 11 | 27 | 32 | 7 | 2 | 21 |
| 11,132 | 900 | 9 | 13 | 6 | 6 | 0 | 0 | 52 | 3 | 17 | 10 |
| 12,369 | 1000 | 13 | 21 | 18 | 21 | 0 | 4 | 12 | 0 | 1 | 57 |
| 13,606 | 1100 | 18 | 5 | 30 | 35 | 0 | 7 | 31 | 8 | 16 | 44 |
| 14,843 | 1200 | 22 | 13 | 42 | 50 | 0 | 10 | 51 | 5 | 1 | 30 |
| 16,080 | 1300 | 26 | 21 | 55 | 4 | 0 | 14 | 11 | 1 | 16 | 17 |
| 17,316 | 1400 | 1 | 17 | 23 | 15 | 11 | 18 | 24 | 9 | 5 | 15 |
| 18,553 | 1500 | 6 | 1 | 35 | 30 | 11 | 21 | 44 | 5 | 20 | 1 |
| 19,790 | 1600 | 10 | 9 | 47 | 44 | 11 | 25 | 4 | 2 | 4 | 48 |
| 21,027 | 1700 | 14 | 17 | 59 | 58 | 11 | 28 | 24 | 10 | 19 | 34 |
| 22,264 | 1800 | 19 | 2 | 12 | 13 | 0 | 1 | 44 | 7 | 4 | 21 |
| 23,501 | 1900 | 23 | 10 | 24 | 27 | 0 | 5 | 3 | 3 | 19 | 8 |
| 24,738 | 2000 | 27 | 18 | 36 | 41 | 0 | 8 | 23 | 0 | 3 | 54 |
| 25,974 | 2100 | 2 | 14 | 4 | 53 | 11 | 12 | 37 | 7 | 22 | 52 |
| 27,211 | 2200 | 6 | 22 | 17 | 7 | 11 | 15 | 56 | 4 | 7 | 38 |
| 28,448 | 2300 | 11 | 6 | 29 | 22 | 11 | 19 | 16 | 0 | 22 | 25 |
| 29,685 | 2400 | 15 | 14 | 41 | 36 | 11 | 22 | 36 | 9 | 7 | 12 |
| 30,922 | 2500 | 19 | 22 | 53 | 50 | 11 | 25 | 56 | 5 | 21 | 58 |
| 32,159 | 2600 | 24 | 7 | 6 | 5 | 11 | 29 | 16 | 2 | 6 | 45 |
| 33,396 | 2700 | 23 | 15 | 18 | 19 | 0 | 2 | 35 | 10 | 21 | 31 |
| 34,632 | 2800 | 3 | 10 | 46 | 30 | 11 | 6 | 49 | 6 | 10 | 29 |
| 35,869 | 2900 | 7 | 18 | 58 | 45 | 11 | 10 | 9 | 2 | 25 | 16 |
| 37,106 | 3000 | 12 | 3 | 10 | 59 | 11 | 13 | 28 | 11 | 10 | 2 |
| 38,343 | 3100 | 16 | 11 | 23 | 13 | 11 | 16 | 48 | 7 | 24 | 49 |
| 39,580 | 3200 | 20 | 19 | 35 | 28 | 11 | 20 | 8 | 4 | 9 | 35 |
| 40,817 | 3300 | 25 | 3 | 47 | 42 | 11 | 23 | 28 | 0 | 24 | 22 |
| 42,054 | 3400 | 29 | 11 | 59 | 57 | 11 | 26 | 48 | 9 | 9 | 9 |
| 43,290 | 3500 | 4 | 7 | 28 | 8 | 11 | 1 | 1 | 4 | 28 | 6 |
| 44,527 | 3600 | 8 | 15 | 40 | 22 | 11 | 4 | 21 | 1 | 12 | 53 |
| 45,764 | 3700 | 12 | 23 | 52 | 37 | 11 | 7 | 41 | 9 | 27 | 40 |
| 47,001 | 3800 | 17 | 8 | 4 | 51 | 11 | 11 | 0 | 6 | 12 | 26 |
| 48,238 | 3900 | 21 | 16 | 17 | 5 | 11 | 14 | 20 | 2 | 27 | 13 |
| 49,475 | 4000 | 26 | 0 | 29 | 20 | 11 | 17 | 40 | 11 | 11 | 59 |
| 50,711 | 4100 | 0 | 19 | 57 | 31 | 10 | 21 | 53 | 7 | 0 | 57 |
| 51,948 | 4200 | 5 | 4 | 9 | 45 | 10 | 25 | 13 | 3 | 15 | 44 |
| 53,185 | 4300 | 9 | 12 | 22 | 0 | 10 | 28 | 33 | 0 | 0 | 30 |
| 54,422 | 4400 | 13 | 20 | 34 | 14 | 11 | 1 | 53 | 8 | 15 | 17 |
| 55,659 | 4500 | 18 | 4 | 46 | 29 | 11 | 5 | 13 | 5 | 0 | 3 |
| 56,896 | 4600 | 22 | 12 | 58 | 43 | 11 | 8 | 32 | 1 | 14 | 50 |
| 58,133 | 4700 | 26 | 21 | 10 | 57 | 11 | 11 | 52 | 9 | 29 | 37 |
| 59,369 | 4800 | 1 | 16 | 39 | 9 | 10 | 16 | 6 | 5 | 18 | 34 |
| 60,606 | 4900 | 6 | 0 | 51 | 23 | 10 | 19 | 25 | 2 | 3 | 21 |
| 61,843 | 5000 | 10 | 9 | 3 | 37 | 10 | 22 | 45 | 10 | 18 | 7 |
| 63,080 | 5100 | 14 | 17 | 15 | 52 | 10 | 26 | 5 | 7 | 2 | 54 |
| 64,317 | 5200 | 19 | 1 | 28 | 6 | 10 | 29 | 25 | 3 | 17 | 41 |
| 65,554 | 5300 | 23 | 9 | 40 | 21 | 11 | 2 | 45 | 0 | 2 | 27 |
| 66,791 | 5400 | 27 | 17 | 52 | 35 | 11 | 6 | 4 | 8 | 17 | 14 |
| 68,027 | 5500 | 2 | 13 | 20 | 46 | 10 | 10 | 18 | 4 | 6 | 12 |
| 69,264 | 5600 | 6 | 21 | 33 | 1 | 10 | 13 | 38 | 0 | 20 | 58 |
| 70,501 | 5700 | 11 | 5 | 45 | 15 | 10 | 16 | 58 | 9 | 5 | 45 |
| 71,738 | 5800 | 15 | 13 | 57 | 29 | 10 | 20 | 17 | 5 | 20 | 31 |
| 72,975 | 5900 | 19 | 22 | 9 | 44 | 10 | 23 | 37 | 2 | 5 | 18 |
| 74,212 | 6000 | 24 | 6 | 21 | 58 | 10 | 26 | 57 | 10 | 20 | 5 |

| No. | Mean Lunations. | | | | Sun's Mean Anomaly. | | | Moon's Mean Anomaly. | | |
|---------------|-----------------|----|----|----|---------------------|----|----|----------------------|----|----|
| | Days | h. | m. | s. | S. | ° | ' | S. | ° | ' |
| 1 | 29 | 12 | 44 | 3 | 0 | 29 | 6 | 0 | 25 | 49 |
| 2 | 59 | 1 | 28 | 6 | 1 | 28 | 13 | 1 | 21 | 38 |
| 3 | 88 | 14 | 12 | 9 | 2 | 27 | 19 | 2 | 17 | 27 |
| 4 | 118 | 2 | 56 | 12 | 3 | 26 | 25 | 3 | 13 | 16 |
| 5 | 147 | 15 | 40 | 16 | 4 | 25 | 32 | 4 | 9 | 5 |
| 6 | 177 | 4 | 24 | 19 | 5 | 24 | 38 | 5 | 4 | 54 |
| 7 | 206 | 17 | 8 | 22 | 6 | 23 | 44 | 6 | 0 | 43 |
| 8 | 236 | 5 | 52 | 25 | 7 | 22 | 51 | 6 | 26 | 32 |
| 9 | 265 | 18 | 36 | 28 | 8 | 21 | 57 | 7 | 22 | 21 |
| 10 | 295 | 7 | 20 | 31 | 9 | 21 | 3 | 8 | 18 | 10 |
| 11 | 324 | 20 | 4 | 34 | 10 | 20 | 10 | 9 | 13 | 59 |
| 12 | 354 | 8 | 48 | 37 | 11 | 19 | 16 | 10 | 9 | 48 |
| 13 | 383 | 21 | 32 | 41 | 0 | 18 | 22 | 11 | 5 | 37 |
| $\frac{1}{2}$ | 14 | 18 | 22 | 2 | 0 | 14 | 33 | 6 | 12 | 54 |

On the basis of the preceding Values and Tables the new moons for 3555 years, from B.C. 1622 to A.D. 1934 have been calculated, and also the full moons of all lunar eclipses from B.C. 1207 to A.D. 1934.

As a specimen of the calculation of the new moons, and of the full moons of lunar eclipses for a single year, the following for the year 1794 will show how the true moons have been obtained from the mean by simply twice equating for solar and lunar anomaly. The moon's mean anomaly has been used, and *not the equated anomaly*, as the error in using the mean anomaly is very small, and the saving of labour, in calculating such extensive tables, considerable. The eclipses in the margin are from Oppolzer's *Canon*, and were inserted in this way in the tables throughout, from B.C. 1207 to A.D. 1934, for purposes of comparison and verification. The *full moons* in the table are indicated by a small circle prefixed to their month dates.

THE FIRST SOLAR ECLIPSE IN EACH CENTURY, FOR 3,000 YEARS,*

FROM B.C. 1100 TO A.D. 1900.

STATED IN JERUSALEM CIVIL TIME.

| Year. | Oppolzer's Canon, Sol. Ecl. | Tables, True New Moon. | Difference. |
|-----------------|-----------------------------|------------------------|-------------|
| B.C. | <i>d. h. m.</i> | <i>d. h. m.</i> | |
| 1100 | JAN. . 25 0 50 | JAN. . 25 0 30 | -20m. |
| 1000 | MAR. . 29 14 8 | MAR. . 29 14 33 | +25m. |
| 900 | MAY . 2 0 5 | MAY . 2 2 29 | +2h. 24m. |
| 800 | JUNE . 4 8 11 | JUNE . 4 9 22 | +1h. 11m. |
| 700 | FEB. . 11 14 15 | FEB. . 11 14 29 | +14m. |
| 600 | MAR. . 17 0 56 | MAR. . 17 2 38 | +1h. 42m. |
| 500 | APRIL . 19 11 0 | APRIL . 19 11 24 | +24m. |
| 400 | JUNE . 21 20 5 | JUNE . 21 18 56 | -1h.9m. |
| 300 | JAN. . 29 22 51 | JAN. . 30 0 12 | +1h. 21m. |
| 200 | MAR. . 4 12 6 | MAR. . 4 11 56 | -10m. |
| 100 | MAY . 6 23 39 | MAY . 6 22 15 | -1h. 24m. |
| A.D. | | | |
| 1 | JUNE . 10 6 12 | JUNE . 10 4 39 | -1h. 33m. |
| 100 | FEB. . 27 22 0 | FEB. . 27 22 45 | +45m. |
| 200 | APRIL . 1 12 6 | APRIL . 1 11 27 | -39m. |
| 300 | MAY . 5 16 35 | MAY . 5 15 2 | -1h. 33m. |
| 400 | JAN. . 12 18 22 | JAN. . 12 18 57 | +35m. |
| 500 | FEB. . 15 11 54 | FEB. . 15 11 2 | -52m. |
| 600 | MAR. . 20 18 41 | MAR. . 20 17 20 | -1h. 21m. |
| 700 | MAY . 23 9 4 | MAY . 23 7 46 | -1h. 18m. |
| 800 | JUNE . 26 2 44 | JUNE . 26 3 1 | +17m. |
| 900 | MAR. . 4 3 43 | MAR. . 4 2 24 | -1h. 19m. |
| 1000 | APRIL . 7 11 11 | APRIL . 7 10 14 | -57m. |
| 1100 | MAY . 11 4 35 | MAY . 11 4 37 | +2m. |
| 1200 | JAN. . 18 1 57 | JAN. . 18 0 55 | -1h. 2m. |
| 1300 | FEB. . 21 10 42 | FEB. . 21 10 8 | -34m. |
| 1400 | MAR. . 23 4 46 | MAR. . 26 4 40 | -6m. |
| 1500 | MAY . 28 2 15 | MAY . 28 2 12 | -3m. |
| 1600 | JAN. . 6 7 27 | JAN. . 6 7 16 | -11m. |
| 1700 | FEB. . 9 1 55 | FEB. . 9 1 52 | -3m. |
| 1800 | APRIL . 12 2 53 | APRIL . 12 2 36 | -17m. |
| 1900 | MAY . 15 17 11 | MAY . 15 17 24 | +13m. |
| Mean difference | | | -10m. |

* Accurately 3000-1=2999 years.

| Year and Month. | Mean New Moon. (○ Full Ecl.) | Sun's Mean Anomaly. | Moon's Mean Anomaly. | First Equation. | Second Equation. | True New Moon. (○ Full Ecl.) | Eclipses from Oppolzer's Canon. |
|-----------------|---------------------------------|---------------------|----------------------|-----------------|------------------|---------------------------------|---------------------------------|
| 1794 | d. h. m. | s. ° ' | s. ° ' | h. m. | h. m. | d. h. m. | |
| JAN. . . | 20 6 50 | 1 1 12 | 10 26 16 | +5 5 | +2 14 | 20 14 9 | *20 13 57 |
| ○ | 4 1 12 | 1 15 45 | 5 9 11 | -3 44 | +3 4 | 4 0 32 | ○4 0 44 |
| FEB. . . | 18 19 34 | 2 0 18 | 11 22 5 | +1 15 | +3 42 | 19 0 31 | *19 0 23 |
| MAR. . . | 20 8 18 | 2 29 25 | 0 17 53 | -2 47 | +4 12 | 20 9 43 | |
| APRIL . . | 18 21 2 | 3 28 31 | 1 13 42 | -6 24 | +3 39 | 18 18 17 | |
| MAY . . . | 18 9 46 | 4 27 38 | 2 9 31 | -8 57 | +2 12 | 18 3 1 | |
| JUNE . . . | 16 22 30 | 5 26 44 | 3 5 20 | -9 51 | +0 14 | 16 12 53 | |
| JULY . . . | 16 11 14 | 6 25 50 | 4 1 9 | -8 44 | -1 48 | 16 0 42 | *16 0 32 |
| ○ | 31 5 36 | 7 10 23 | 10 14 4 | +6 40 | -2 40 | 31 9 36 | ○31 9 51 |
| AUG. . . . | 14 23 58 | 7 24 57 | 4 26 58 | -5 42 | -3 24 | 14 14 52 | *14 14 48 |
| SEPT. . . | 13 12 42 | 8 24 3 | 5 22 47 | -1 19 | -4 10 | 13 7 13 | |
| OCT. . . . | 13 1 26 | 9 23 9 | 6 18 36 | +3 22 | -3 54 | 13 0 54 | |
| NOV. . . . | 11 14 10 | 10 22 16 | 7 14 25 | +7 15 | -2 37 | 11 18 48 | |
| DEC. . . . | 11 2 54 | 11 21 22 | 8 10 14 | +9 29 | -0 38 | 11 11 45 | |

CORRESPONDENCE OF DATES IN THE TABLES WITH THOSE IN OPPOLZER'S "CANON."

As fairly illustrating the correspondence of the Tables in this volume with the eclipses in Oppolzer's *Canon der Finsternisse*, the following extract presents the first solar eclipse in each century, for 3,000 years, as given in Oppolzer's *Canon*, and the corresponding True New Moon of the Tables. As the latter are only twice equated, and calculated on somewhat different data from the new moons of Oppolzer's eclipses, they ought to differ from them; but *the mean difference is found to be less than an hour*. The accuracy of the Tables is thus sufficient for all ordinary historical and chronological purposes.

THE FIRST SOLAR ECLIPSE IN EACH CENTURY, FOR 3,000 YEARS;*

FROM B.C. 1100 TO A.D. 1900.

STATED IN JERUSALEM CIVIL TIME.

| Year. | Oppolzer's Canon, Sol. Ecl. | | Tables, True New Moon. | | Difference. |
|-----------------|-----------------------------|----------|------------------------|----------|-------------|
| B.C. | | d. h. m. | | d. h. m. | |
| 1100 | JAN. | 25 0 50 | JAN. | 25 0 30 | -20m. |
| 1000 | MAR. | 29 14 8 | MAR. | 29 14 33 | +25m. |
| 900 | MAY | 2 0 5 | MAY | 2 2 29 | +2h. 24m. |
| 800 | JUNE | 4 8 11 | JUNE | 4 9 22 | +1h. 11m. |
| 700 | FEB. | 11 14 15 | FEB. | 11 14 29 | +14m. |
| 600 | MAR. | 17 0 56 | MAR. | 17 2 38 | +1h. 42m. |
| 500 | APRIL | 19 11 0 | APRIL | 19 11 24 | +24m. |
| 400 | JUNE | 21 20 5 | JUNE | 21 18 56 | -1h. 9m. |
| 300 | JAN. | 29 22 51 | JAN. | 30 0 12 | +1h. 21m. |
| 200 | MAR. | 4 12 6 | MAR. | 4 11 56 | -10m. |
| 100 | MAY | 6 23 39 | MAY | 6 22 15 | -1h. 24m. |
| A.D. | | | | | |
| 1 | JUNE | 10 6 12 | JUNE | 10 4 39 | -1h. 33m. |
| 100 | FEB. | 27 22 0 | FEB. | 27 22 45 | +45m. |
| 200 | APRIL | 1 12 6 | APRIL | 1 11 27 | -39m. |
| 300 | MAY | 5 16 35 | MAY | 5 15 2 | -1h. 33m. |
| 400 | JAN. | 12 18 22 | JAN. | 12 18 57 | +35m. |
| 500 | FEB. | 15 11 54 | FEB. | 15 11 2 | -52m. |
| 600 | MAR. | 20 18 41 | MAR. | 20 17 20 | -1h. 21m. |
| 700 | MAY | 23 9 4 | MAY | 23 7 46 | -1h. 18m. |
| 800 | JUNE | 26 2 44 | JUNE | 26 3 1 | +17m. |
| 900 | MAR. | 4 3 43 | MAR. | 4 2 24 | -1h. 19m. |
| 1000 | APRIL | 7 11 11 | APRIL | 7 10 14 | -57m. |
| 1100 | MAY | 11 4 35 | MAY | 11 4 37 | +2m. |
| 1200 | JAN. | 13 1 57 | JAN. | 13 0 55 | -1h. 2m. |
| 1300 | FEB. | 21 10 42 | FEB. | 21 10 8 | -34m. |
| 1400 | MAR. | 26 4 46 | MAR. | 26 4 40 | -6m. |
| 1500 | MAY | 28 2 15 | MAY | 28 2 12 | -3m. |
| 1600 | JAN. | 6 7 27 | JAN. | 6 7 16 | -11m. |
| 1700 | FEB. | 9 1 55 | FEB. | 9 1 52 | -3m. |
| 1800 | APRIL | 12 2 53 | APRIL | 12 2 36 | -17m. |
| 1900 | MAY | 15 17 11 | MAY | 15 17 24 | +13m. |
| Mean difference | | | | | -10m. |

* Accurately 3000-1=2999 years.

FIRST EQUATION FOR THE TIMES OF NEW AND FULL MOON.

Galloway, Enc. Brit.

ARGUMENT—MOON'S MEAN ANOMALY.

| ° | CS | | | IS | | | IIS | | | IIIS | | | IVS | | | VS | | | ° |
|----|------|----|----|-----|----|----|------|----|----|--------|----|----|-------|----|----|------|----|----|----|
| | h. | m. | s. | h. | m. | s. | h. | m. | s. | h. | m. | s. | h. | m. | s. | h. | m. | s. | |
| 0 | 0 | 0 | 0 | 4 | 34 | 26 | 8 | 10 | 3 | 9 | 48 | 59 | 8 | 50 | 0 | 5 | 14 | 24 | 30 |
| 1 | | 9 | 28 | | 42 | 54 | | 15 | 32 | | 49 | 42 | | 45 | 11 | 5 | 5 | 2 | 29 |
| 2 | | 13 | 56 | | 51 | 18 | | 20 | 52 | | 50 | 14 | | 40 | 10 | 4 | 55 | 34 | 28 |
| 3 | | 28 | 24 | | 59 | 38 | | 26 | 5 | | 50 | 35 | | 34 | 59 | | 45 | 59 | 27 |
| 4 | | 37 | 52 | 5 | 7 | 54 | | 31 | 9 | | 50 | 45 | | 29 | 36 | | 36 | 18 | 26 |
| 5 | | 47 | 19 | | 16 | 4 | | 36 | 6 | | 50 | 44 | | 24 | 5 | | 26 | 31 | 25 |
| 6 | 0 | 56 | 45 | | 24 | 10 | | 40 | 53 | | 50 | 33 | | 18 | 23 | | 16 | 38 | 24 |
| 7 | 1 | 6 | 10 | | 32 | 12 | | 45 | 32 | 9 | 50 | 10 | | 12 | 30 | 4 | 6 | 40 | 23 |
| 8 | | 15 | 35 | | 40 | 9 | | 50 | 2 | | 49 | 36 | | 6 | 27 | 3 | 56 | 3 | 22 |
| 9 | | 24 | 59 | | 48 | 1 | | 54 | 24 | | 48 | 51 | 8 | 0 | 14 | | 46 | 27 | 21 |
| 10 | | 34 | 21 | | 55 | 48 | 8 | 53 | 36 | | 47 | 55 | 7 | 53 | 50 | | 36 | 13 | 20 |
| 11 | | 43 | 42 | 6 | 3 | 29 | 9 | 2 | 40 | | 46 | 48 | | 47 | 17 | | 25 | 54 | 19 |
| 12 | 1 | 53 | 2 | | 11 | 5 | | 6 | 34 | | 45 | 29 | | 40 | 35 | | 15 | 31 | 18 |
| 13 | 2 | 2 | 20 | | 18 | 36 | | 10 | 20 | | 43 | 59 | | 33 | 42 | 3 | 5 | 3 | 17 |
| 14 | | 11 | 37 | | 26 | 1 | | 13 | 55 | | 42 | 18 | | 26 | 40 | 2 | 54 | 31 | 16 |
| 15 | | 20 | 51 | | 33 | 20 | | 17 | 22 | | 40 | 26 | | 19 | 28 | | 43 | 56 | 15 |
| 16 | | 30 | 4 | | 40 | 33 | | 20 | 38 | | 38 | 22 | | 12 | 7 | | 33 | 16 | 14 |
| 17 | | 39 | 15 | | 47 | 40 | | 23 | 46 | | 36 | 8 | 7 | 4 | 37 | | 22 | 34 | 13 |
| 18 | | 48 | 23 | | 54 | 41 | | 26 | 43 | | 33 | 42 | 6 | 56 | 53 | | 11 | 48 | 12 |
| 19 | 2 | 57 | 29 | 7 | 1 | 36 | | 29 | 30 | | 31 | 4 | | 49 | 11 | 2 | 0 | 59 | 11 |
| 20 | 3 | 6 | 33 | | 8 | 24 | | 32 | 8 | | 28 | 16 | | 41 | 14 | 1 | 50 | 8 | 10 |
| 21 | | 15 | 34 | | 15 | 6 | | 34 | 36 | | 25 | 16 | | 33 | 9 | | 39 | 14 | 9 |
| 22 | | 24 | 33 | | 21 | 41 | | 36 | 53 | | 22 | 5 | | 24 | 55 | | 28 | 18 | 8 |
| 23 | | 33 | 28 | | 28 | 9 | | 39 | 0 | | 18 | 44 | | 16 | 33 | | 17 | 20 | 7 |
| 24 | | 42 | 21 | | 34 | 30 | | 40 | 57 | | 15 | 10 | 6 | 8 | 3 | 1 | 6 | 20 | 6 |
| 25 | | 51 | 10 | | 40 | 44 | | 42 | 44 | | 11 | 26 | 5 | 59 | 26 | 0 | 55 | 19 | 5 |
| 26 | 3 | 59 | 56 | | 46 | 52 | | 44 | 20 | | 7 | 31 | | 50 | 39 | | 44 | 17 | 4 |
| 27 | 4 | 8 | 39 | | 52 | 50 | | 45 | 46 | 9 | 3 | 25 | | 41 | 47 | | 33 | 13 | 3 |
| 28 | | 17 | 18 | | 58 | 42 | | 47 | 1 | 8 | 59 | 8 | | 32 | 46 | | 22 | 9 | 2 |
| 29 | | 25 | 54 | 8 | 4 | 26 | | 48 | 5 | | 54 | 39 | | 23 | 38 | | 11 | 5 | 1 |
| 30 | 4 | 34 | 26 | 8 | 10 | 3 | 9 | 43 | 59 | 8 | 50 | 0 | 3 | 14 | 24 | 0 | 0 | 0 | 0 |
| ° | + XI | | | + X | | | + IX | | | + VIII | | | + VII | | | + VI | | | ° |

SECOND EQUATION FOR THE TIME OF NEW AND FULL MOON.

| ARGUMENT—SUN'S MEAN ANOMALY. | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|----|
| ° | 0 + | | | I + | | | II + | | | III + | | | IV + | | | V + | | | ° | |
| | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | | |
| 0 | 0 | 0 | 0 | 2 | 8 | 39 | 3 | 40 | 48 | 4 | 11 | 50 | 3 | 35 | 30 | 2 | 3 | 21 | 30 | |
| 1 | | 4 | 30 | | 12 | 30 | | 42 | 54 | | 11 | 41 | | 33 | 13 | 1 | 59 | 35 | | 29 |
| 2 | | 9 | 1 | | 16 | 17 | | 44 | 56 | | 11 | 28 | | 30 | 52 | | 55 | 47 | | 27 |
| 3 | | 13 | 31 | | 20 | 3 | | 46 | 54 | | 11 | 10 | | 28 | 28 | | 51 | 56 | | 28 |
| 4 | | 18 | 1 | | 23 | 45 | | 48 | 48 | | 10 | 48 | | 26 | 0 | | 48 | 4 | | 26 |
| 5 | | 22 | 30 | | 27 | 25 | | 50 | 37 | | 10 | 20 | | 23 | 29 | | 44 | 10 | | 25 |
| 6 | | 26 | 59 | | 31 | 1 | | 52 | 22 | | 9 | 49 | | 20 | 53 | | 40 | 14 | | 24 |
| 7 | | 31 | 28 | | 34 | 35 | | 54 | 3 | | 9 | 13 | | 18 | 15 | | 36 | 17 | | 23 |
| 8 | | 35 | 55 | | 38 | 6 | | 55 | 39 | | 8 | 32 | | 15 | 33 | | 32 | 17 | | 22 |
| 9 | | 40 | 23 | | 41 | 34 | | 57 | 11 | | 7 | 47 | | 12 | 47 | | 28 | 16 | | 21 |
| 10 | | 44 | 49 | | 44 | 59 | 3 | 58 | 38 | | 6 | 58 | | 9 | 58 | | 24 | 14 | | 20 |
| 11 | | 49 | 15 | | 48 | 20 | 4 | 0 | 1 | | 6 | 4 | | 7 | 6 | | 20 | 10 | | 19 |
| 12 | | 53 | 39 | | 51 | 38 | | 1 | 20 | | 5 | 6 | | 4 | 11 | | 16 | 5 | | 18 |
| 13 | 0 | 58 | 3 | | 54 | 53 | | 2 | 33 | | 4 | 3 | 3 | 1 | 12 | | 11 | 59 | | 17 |
| 14 | 1 | 2 | 25 | 2 | 58 | 5 | | 3 | 48 | | 2 | 56 | 2 | 58 | 11 | | 7 | 51 | | 16 |
| 15 | | 6 | 46 | 3 | 1 | 13 | | 4 | 48 | | 1 | 44 | | 55 | 6 | 1 | 3 | 42 | | 15 |
| 16 | | 11 | 6 | | 4 | 18 | | 5 | 48 | 4 | 0 | 28* | | 51 | 58 | 0 | 59 | 32 | | 14 |
| 17 | | 15 | 24 | | 7 | 19 | | 6 | 44 | 3 | 59 | 8 | | 43 | 47 | | 55 | 22 | | 13 |
| 18 | | 19 | 41 | | 10 | 16 | | 7 | 35 | | 57 | 44 | | 45 | 33 | | 51 | 10 | | 12 |
| 19 | | 23 | 56 | | 13 | 10 | | 8 | 21 | | 56 | 15 | | 42 | 16 | | 46 | 57 | | 11 |
| 20 | | 28 | 10 | | 16 | 0 | | 9 | 3 | | 54 | 42 | | 38 | 57 | | 42 | 43 | | 10 |
| 21 | | 32 | 22 | | 18 | 46 | | 9 | 41 | | 53 | 5 | | 35 | 35 | | 38 | 29 | | 9 |
| 22 | | 36 | 32 | | 21 | 29 | | 10 | 14 | | 51 | 24 | | 32 | 10 | | 34 | 14 | | 8 |
| 23 | | 40 | 41 | | 24 | 8 | | 10 | 42 | | 49 | 38 | | 23 | 42 | | 29 | 59 | | 7 |
| 24 | | 44 | 47 | | 26 | 43 | | 11 | 5 | | 47 | 49 | | 25 | 12 | | 25 | 43 | | 6 |
| 25 | | 48 | 51 | | 29 | 14 | | 11 | 24 | | 45 | 56 | | 21 | 40 | | 21 | 27 | | 5 |
| 26 | | 52 | 53 | | 31 | 40 | | 11 | 39 | | 43 | 58 | | 18 | 5 | | 17 | 9 | | 4 |
| 27 | 1 | 56 | 53 | | 34 | 3 | | 11 | 43 | | 41 | 57 | | 14 | 27 | | 12 | 52 | | 3 |
| 28 | 2 | 0 | 51 | | 36 | 22 | | 11 | 53 | | 39 | 52 | | 10 | 47 | | 8 | 35 | | 2 |
| 29 | | 4 | 46 | | 38 | 37 | | 11 | 54 | | 37 | 43 | | 7 | 5 | | 4 | 18 | | 1 |
| 30 | 2 | 8 | 39 | 3 | 40 | 48 | 4 | 11 | 50 | 3 | 35 | 30 | 2 | 3 | 21 | 0 | 0 | 0 | | 0 |
| ° | XI | | | X | | | IX | | | VIII | | | VII | | | VI | | | ° | |

* Printed 3-0-28 in Encyclop. Brit.

To find the mean and true new moons for past or future centuries from those of the present century given in the foregoing tables, it is only necessary to apply the century corrections, and take out the equations, as shown in the following calculation of the mean and true moons of March, 1744:—

| | MEAN NEW MOON. | SUN'S ANOMALY. | MOON'S ANOMALY. |
|---------------|----------------------------|----------------|-----------------|
| | d h m s | s ° ' | s ° ' |
| March, 1844 | 7 6 1 39 | 2 16 32 | 4 12 22 |
| 100 Years | 4 8 12 14 | 0 3 20 | 8 14 47 |
| <hr/> | | | |
| | 2. 21. 49. 25 | 2 13 12 | 7 27 35 |
| 1st Equation | + 8 38 | | |
| 2nd Equation | + 4 3 | | |
| True New Moon | <hr/> 3. 10. 30. 25. <hr/> | | |
| Mar., 1744 | | | |

To find the subsequent mean and true new moons for any particular year from those of the initial month of March, add the quantities given in the appropriate Table (Table of 13 lunations) to those of March, and take out the equations for the sun's and moon's anomaly. Example, to find the mean and true new moons for April, 1744:—

| | MEAN NEW MOON. | SUN'S ANOMALY. | MOON'S ANOMALY. |
|---------------|-----------------------|----------------|-----------------|
| | d h m s | s ° ' | s ° ' |
| Mar., 1744 | 2 21 49 25 | 2 13 12 | 7 27 35 |
| 1 Lunation | 29 12 44 3 | 0 29 6 | 0 25 49 |
| <hr/> | | | |
| April, | 1. 10. 33. 28. | 3. 12. 18. | 8. 23. 24 |
| 1st Equation | + 9 50 | | |
| 2nd Equation | + 4 5 | | |
| True New Moon | <hr/> 2. 0. 28. <hr/> | | |
| April, 1744 | | | |

DOMINICAL LETTER, A.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|--|--|--|--|--|--|---|--|--|--|------|
| 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | |

DOMINICAL LETTER. B.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|---|---|--|---|--|--|--|---|---|---|------|
| 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 S 2 M 3 Tu 4 W 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | |

DOMINICAL LETTER. C.

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| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|--|--|---|--|---|---|--|--|--|--|------|
| 1 F 2 Sa 3 M 4 S 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | |

DOMINICAL LETTER, D.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| Th 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 | S 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 | S 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 | W 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 | F 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 | M 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 | W 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 | Sa 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 | Th 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 | S 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 | Tu 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 | |

DOMINICAL LETTER. E.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | |

DOMINICAL LETTER. F.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| Tu 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | F Sa 1 2 3 Sa 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 Th 28 F 29 Sa 30 S 31 M | F Sa 1 2 3 S 4 M 5 Tu 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | M Tu 1 2 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | M Tu 1 2 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | Sa 1 2 3 S 4 M 5 Tu 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | M Tu 1 2 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | Th 1 2 3 Sa 4 S 5 M 6 Tu 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 Th 28 F 29 Sa 30 S 31 M | Tu 1 2 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 Tu | F Sa 1 2 3 S 4 M 5 Tu 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | S M Tu 1 2 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | |

DOMINICAL LETTER, F.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV | DEC. |
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| 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 S 30 M 31 Tu | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 S 30 M 31 Tu | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 S 30 M 31 Tu | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 S 30 M 31 Tu | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | |

DOMINICAL LETTER, U.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 Tu | |

BISSEXTILE YEAR.—DOMINICAL LETTERS. A. G.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 Th 14 W 15 F 16 Sa 17 S 18 M 19 Tu 20 Th 21 W 22 F 23 Sa 24 S 25 M 26 Tu 27 Th 28 F 29 Sa 30 S 31 M | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 Th 19 W 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 Th 16 W 17 F 18 Sa 19 S 20 M 21 Tu 22 Th 23 W 24 F 25 Sa 26 S 27 M 28 Tu 29 Th 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 Th 14 W 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 F 22 Sa 23 S 24 M 25 Tu 26 Th 27 W 28 F 29 Sa 30 S | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 Th 12 W 13 F 14 Sa 15 S 16 M 17 Tu 18 Th 19 W 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 Th 15 W 16 F 17 Sa 18 S 19 M 20 Tu 21 Th 22 W 23 F 24 Sa 25 S 26 M 27 Tu 28 Th 29 W 30 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 Th 13 W 14 F 15 Sa 16 S 17 M 18 Tu 19 Th 20 W 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 Th 14 W 15 F 16 Sa 17 S 18 M 19 Tu 20 Th 21 W 22 F 23 Sa 24 S 25 M 26 Tu 27 Th 28 W 29 Th 30 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 Th 13 W 14 F 15 Sa 16 S 17 M 18 Tu 19 Th 20 W 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | |

BISSEXTILE YEAR — DOMINICAL LETTERS. C. B.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | |

BISSEXTILE YEAR.—DOMINICAL LETTERS. E. D.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
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| 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th |

BISSEXTILE YEAR.—DOMINICAL LETTERS. G. F.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|--|--|--|--|--|--|---|--|---|--|------|
| 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 F 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | |

BISSEXTILE YEAR.—DOMINICAL LETTERS. B.A.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|---|--|--|--|--|--|---|--|--|--|------|
| 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 S | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | |

BISSEXTILE YEAR.—DOMINICAL LETTERS. D.C.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|---|--|--|---|--|--|---|--|---|--|--|------|
| 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 F 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | |

BISSEXTILE YEAR.—DOMINICAL LETTERS. F.E.

| JAN. | FEB. | MAR. | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|---|--|--|---|---|--|---|--|--|--|--|------|
| 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 Th 2 F 3 Sa 4 S 5 M 6 Tu 7 W 8 Th 9 F 10 Sa 11 S 12 M 13 Tu 14 W 15 Th 16 F 17 Sa 18 S 19 M 20 Tu 21 W 22 Th 23 F 24 Sa 25 S 26 M 27 Tu 28 W 29 Th 30 F 31 Sa | 1 S 2 M 3 Tu 4 W 5 Th 6 F 7 Sa 8 S 9 M 10 Tu 11 W 12 Th 13 F 14 Sa 15 S 16 M 17 Tu 18 W 19 Th 20 F 21 Sa 22 S 23 M 24 Tu 25 W 26 Th 27 F 28 Sa 29 S 30 M 31 Tu | 1 Tu 2 W 3 Th 4 F 5 Sa 6 S 7 M 8 Tu 9 W 10 Th 11 F 12 Sa 13 S 14 M 15 Tu 16 W 17 Th 18 F 19 Sa 20 S 21 M 22 Tu 23 W 24 Th 25 F 26 Sa 27 S 28 M 29 Tu 30 W 31 Th | 1 F 2 Sa 3 S 4 M 5 Tu 6 W 7 Th 8 F 9 Sa 10 S 11 M 12 Tu 13 W 14 Th 15 F 16 Sa 17 S 18 M 19 Tu 20 W 21 Th 22 F 23 Sa 24 S 25 M 26 Tu 27 W 28 Th 29 F 30 Sa 31 S | 1 W 2 Th 3 F 4 Sa 5 S 6 M 7 Tu 8 W 9 Th 10 F 11 Sa 12 S 13 M 14 Tu 15 W 16 Th 17 F 18 Sa 19 S 20 M 21 Tu 22 W 23 Th 24 F 25 Sa 26 S 27 M 28 Tu 29 W 30 Th 31 F | 1 Sa 2 S 3 M 4 Tu 5 W 6 Th 7 F 8 Sa 9 S 10 M 11 Tu 12 W 13 Th 14 F 15 Sa 16 S 17 M 18 Tu 19 W 20 Th 21 F 22 Sa 23 S 24 M 25 Tu 26 W 27 Th 28 F 29 Sa 30 S 31 M | 1 M 2 Tu 3 W 4 Th 5 F 6 Sa 7 S 8 M 9 Tu 10 W 11 Th 12 F 13 Sa 14 S 15 M 16 Tu 17 W 18 Th 19 F 20 Sa 21 S 22 M 23 Tu 24 W 25 Th 26 F 27 Sa 28 S 29 M 30 Tu 31 W | |

DOMINICAL LETTER TABLES.

The Dominical letter of each year is stated in the Tables of quinoxes and New Moons. To find the day of the week ascertain from these the Dominical letter for the year, and in the dominical letter Tables, under that letter, the required day of the week will be found.

EXAMPLE.—On what day of the week did April 5, the day of the vernal equinox and also of the new moon, fall, in B.C. 1622? In the Tables of Equinoxes and New Moons the Dominical letter for B.C. 1622 is G. Under the letter G in the Dominical Letter Tables April 5 is Thursday.

The Dominical letters can be employed as a test of the correctness of the tables, care being taken when B.C. and A.D. dates are compared to subtract one year.

Example: 2,300 years end one day of the week lower than the day on which they begin.

| | | | | | |
|-------------|--------------|----------------|------------|----------|------------|
| 2,300 years | { B.C. 1622. | Dom. letter G. | Vernal Eq. | Ap. 5. | Thursday. |
| | { A.D. 679. | " " | B. " | Mar. 18. | Friday. |
| " | { B.C. 1443. | " " | G. " | Ap. 3. | Tuesday. |
| | { A.D. 858. | " " | B. " | Mar. 16. | Wednesday. |
| " | { B.C. 1336. | " " | F. " | Ap. 2. | Tuesday. |
| | { A.D. 965. | " " | A. " | Mar. 15. | Wednesday. |
| " | { B.C. 1143. | " " | C. " | Ap. 1. | Thursday. |
| | { A.D. 1158. | " " | E. " | Mar. 14. | Friday. |
| " | { B.C. 772. | " " | A. " | Mar. 29. | Wednesday. |
| | { A.D. 1529. | " " | C. " | Mar. 11. | Thursday. |
| " | { B.C. 457. | " " | G.F. " | Mar. 26. | Tuesday. |
| | { A.D. 1844. | " " | B.A. " | Mar. 8. | Wednesday. |
| " | { B.C. 367. | " " | F. " | Mar. 26. | Tuesday. |
| | { A.D. 1934. | " " | A. " | Mar. 8. | Wednesday. |

VERIFICATION OF THE TABLES.

In the following Table, the 33 years Equinox cycle is employed to verify the vernal Equinoxes in this volume in a series of dates beginning B.C. 1622, and extending to A.D. 1910.

EXPLANATION OF THE CYCLE.

The Julian year of 365 $\frac{1}{4}$ days exceeds the Tropical year by 11 minutes 12 seconds. This fractional excess grows to 6 hours 9 minutes in 33 years. Instead of intercalating in the Calendar 1 day every 4 years, and 8 days in 32 years, it is more correct therefore to shift the 8th intercalation from the 32nd to the 33rd year. This is to drop the six hours' error of the Julian reckoning in that period. The error of the 33 years Equinox cycle is less than 9 minutes.

The regularity of the nearly 9 minutes differences in the Equinoxes (at intervals of 33 years) is conspicuous throughout the following Table. The number of days elapsed from the initial date of the Table is stated, as the accuracy of the Equinox cycle seems to warrant it, and the statement may prove serviceable in chronological calculations.

THE 33 YEARS EQUINOX CYCLE.

| No. | B.C. | Month. | d. h. m. | Days. | No. | A.D. | Month. | d. h. m. | Days. |
|-----|------|--------|----------|---------|-----|------|--------|----------|-----------|
| | 1622 | April | 5 5 32 | | 50 | 29 | March | 22 22 16 | 602,650 |
| 1 | 1589 | " | 4 5 23 | 12,053 | 51 | 62 | " | 22 22 7 | 614,703 |
| 2 | 1556 | " | 4 5 14 | 24,106 | 52 | 95 | " | 22 21 59 | 626,756 |
| 3 | 1523 | " | 4 5 6 | 36,159 | 53 | 128 | " | 21 21 50 | 638,809 |
| 4 | 1490 | " | 4 4 57 | 48,212 | 54 | 161 | " | 21 21 41 | 650,862 |
| 5 | 1457 | " | 3 4 48 | 60,265 | 55 | 194 | " | 21 21 32 | 662,915 |
| 6 | 1424 | " | 3 4 40 | 72,318 | 56 | 227 | " | 21 21 24 | 674,968 |
| 7 | 1391 | " | 3 4 31 | 84,371 | 57 | 260 | " | 20 21 15 | 687,021 |
| 8 | 1358 | " | 3 4 23 | 96,424 | 58 | 293 | " | 20 21 6 | 699,074 |
| 9 | 1325 | " | 2 4 18 | 108,477 | 59 | 326 | " | 20 20 57 | 711,127 |
| 10 | 1292 | " | 2 4 5 | 120,530 | 60 | 359 | " | 20 20 49 | 723,180 |
| 11 | 1259 | " | 2 3 56 | 132,583 | 61 | 392 | " | 19 20 40 | 735,233 |
| 12 | 1226 | " | 2 3 47 | 144,636 | 62 | 425 | " | 19 20 31 | 747,286 |
| 13 | 1193 | " | 1 3 39 | 156,689 | 63 | 458 | " | 19 20 23 | 759,339 |
| 14 | 1160 | " | 1 3 30 | 168,742 | 64 | 491 | " | 19 20 14 | 771,392 |
| 15 | 1127 | " | 1 3 21 | 180,795 | 65 | 524 | " | 18 20 5 | 783,445 |
| 16 | 1094 | " | 1 3 12 | 192,848 | 66 | 557 | " | 18 19 56 | 795,498 |
| 17 | 1061 | March | 31 3 4 | 204,901 | 67 | 590 | " | 18 19 48 | 807,551 |
| 18 | 1028 | " | 31 2 55 | 216,954 | 68 | 623 | " | 18 19 39 | 819,604 |
| 19 | 995 | " | 31 2 46 | 229,007 | 69 | 656 | " | 17 19 30 | 831,657 |
| 20 | 962 | " | 31 2 37 | 241,060 | 70 | 689 | " | 17 19 21 | 843,710 |
| 21 | 929 | " | 30 2 29 | 253,113 | 71 | 722 | " | 17 19 13 | 855,763 |
| 22 | 896 | " | 30 2 20 | 265,166 | 72 | 755 | " | 17 19 4 | 867,816 |
| 23 | 863 | " | 30 2 11 | 277,219 | 73 | 788 | " | 16 18 55 | 879,869 |
| 24 | 830 | " | 30 2 3 | 289,272 | 74 | 821 | " | 16 18 47 | 891,922 |
| 25 | 797 | " | 29 1 54 | 301,325 | 75 | 854 | " | 16 18 38 | 903,975 |
| 26 | 764 | " | 29 1 45 | 313,378 | 76 | 887 | " | 16 18 29 | 916,028 |
| 27 | 731 | " | 29 1 36 | 325,431 | 77 | 920 | " | 15 18 20 | 928,081 |
| 28 | 698 | " | 29 1 28 | 337,484 | 78 | 953 | " | 15 18 12 | 940,134 |
| 29 | 665 | " | 28 1 19 | 349,537 | 79 | 986 | " | 15 18 3 | 952,187 |
| 30 | 632 | " | 28 1 10 | 361,590 | 80 | 1019 | " | 15 17 54 | 964,240 |
| 31 | 599 | " | 28 1 2 | 373,643 | 81 | 1052 | " | 14 17 46 | 976,293 |
| 32 | 566 | " | 28 0 53 | 385,696 | 82 | 1085 | " | 14 17 37 | 988,346 |
| 33 | 533 | " | 27 0 44 | 397,749 | 83 | 1118 | " | 14 17 28 | 1,000,399 |
| 34 | 500 | " | 27 0 35 | 409,802 | 84 | 1151 | " | 14 17 19 | 1,012,452 |
| 35 | 467 | " | 27 0 26 | 421,855 | 85 | 1184 | " | 13 17 11 | 1,024,505 |
| 36 | 434 | " | 27 0 17 | 433,908 | 86 | 1217 | " | 13 17 2 | 1,036,558 |
| 37 | 401 | " | 26 0 9 | 445,961 | 87 | 1250 | " | 13 16 53 | 1,048,611 |
| 38 | 368 | " | 26 0 0 | 458,014 | 88 | 1283 | " | 13 16 44 | 1,060,664 |
| 39 | 335 | " | 25 23 52 | 470,067 | 89 | 1316 | " | 12 16 36 | 1,072,717 |
| 40 | 302 | " | 25 23 43 | 482,120 | 90 | 1349 | " | 12 16 27 | 1,084,770 |
| 41 | 269 | " | 24 23 34 | 494,173 | 91 | 1382 | " | 12 16 18 | 1,096,823 |
| 42 | 236 | " | 24 23 26 | 506,226 | 92 | 1415 | " | 12 16 10 | 1,108,876 |
| 43 | 203 | " | 24 23 17 | 518,279 | 93 | 1448 | " | 11 16 1 | 1,120,929 |
| 44 | 170 | " | 24 23 8 | 530,332 | 94 | 1481 | " | 11 15 52 | 1,132,982 |
| 45 | 137 | " | 23 22 59 | 542,385 | 95 | 1514 | " | 11 15 43 | 1,145,035 |
| 46 | 104 | " | 23 22 51 | 554,438 | 96 | 1547 | " | 11 15 34 | 1,157,088 |
| 47 | 71 | " | 23 22 42 | 566,491 | 97 | 1580 | " | 10 15 26 | 1,169,141 |
| 48 | 38 | " | 23 22 33 | 578,544 | 98 | 1613 | " | 10 15 17 | 1,181,194 |
| 49 | 5 | " | 22 22 25 | 590,597 | 99 | 1646 | " | 10 15 9 | 1,193,247 |
| | | | | | 100 | 1679 | " | 10 15 0 | 1,205,300 |
| | | | | | 101 | 1712 | " | 9 14 52 | 1,217,353 |
| | | | | | 102 | 1745 | " | 9 14 42 | 1,229,406 |
| | | | | | 103 | 1778 | " | 9 14 34 | 1,241,459 |
| | | | | | 104 | 1811 | " | 9 14 25 | 1,253,512 |
| | | | | | 105 | 1844 | " | 8 14 16 | 1,265,565 |
| | | | | | 106 | 1877 | " | 8 14 7 | 1,277,618 |
| | | | | | 107 | 1910 | " | 8 13 59 | 1,289,671 |

USE OF THE TABLES.

1. *The primary use of the Tables is to fix particular dates.* Example:—What was the date of the new moon nearest to the vernal equinox in B.C. 457, the year in which, according to Sir Isaac Newton's calculation,¹ Ezra went up from Babylon to Jerusalem? The Tables show that the vernal equinox in B.C. 457 fell on March 26, and that the nearest new moon was that of March 25 d. 8 h. 45 m, Jerusalem Civil Time; and that, therefore, the Phasis, or first appearance of the new moon coincided with the date of the equinox.

As the Tables contain more than 100,000 solar and lunar dates, they afford the means of ascertaining or verifying a very large number of periods connected with sacred and civil chronology.

The solar and lunar dates in the Tables are the following:—3,555 vernal equinoxes; 43,969 mean new moons; 43,969 true new moons (together 87,938 new moons); 4,862 mean full moons; 4,862 true full moons (together 9,724 full moons); or 101,217 solar and lunar dates.

In ascertaining or verifying historic dates, eclipses have a special value. The Tables contain the dates of all lunar eclipses from April 22, B.C. 1207, to July 26, A.D. 1934. No separate statement of solar eclipses is given, but as these always exactly coincide with true new moons, their dates, when otherwise ascertained, may be confirmed by the Tables. The new and full moons of the Tables being stated in *Jerusalem Civil Time*, allowance must be made for this in comparing them with eclipses stated in Greenwich, or other

¹ An. J. P. 4,257. "Observations on the Prophecies of Daniel," p. 143.

local time, or in time as reckoned from noon. The following are some of the principal centres at which eclipses have been accurately observed, with the corrections which must be applied to the Tables in comparing other local time with that of Jerusalem.

| | Long. | Diff. of Time from Jerusalem. h. m. |
|----------------------------|------------|---|
| London—Greenwich | 0° 0' | —2 21 |
| Paris | 2° 24' E | —2 12 |
| Rome | 12° 30' E | —1 31 |
| Athens | 23° 44' E | —0 46 |
| Constantinople | 29° 0' E | —0 25 |
| Alexandria | 29° 52' E | —0 22 |
| Babylon | 44° 33' E | +0 37 |
| Canton | 113° 20' E | +5 12 |
| Pekin | 116° 20' E | +5 24 |

The following nineteen lunar eclipses recorded by Ptolemy establish the chronology of Babylonian, Persian, Grecian and Roman rulers for nine centuries. The names and periods of kings in Ptolemy's Canon extend from Nabonassar, B.C. 747, to Antoninus, A.D. 138. "The astronomic and the historic cannot be separated, and they must both stand or fall together. The astronomic can be rigidly verified, and the truth of the historic is a legitimate deduction."

LUNAR ECLIPSES RECORDED BY PTOLEMY.

| | B. C. | Year of Nabonassar. | Reign. | Egyptian Month. | Hour. | Date of Eclipse by Oppolzer. | | Date in Tables. | | Differences. | |
|--------|-------|---------------------|------------------------|-----------------|----------------|------------------------------|----|-----------------|----|--------------|----|
| | | | | | | d. | m. | d. | m. | h. | m. |
| I. | 721 | 27 | Mardoceompadi, 1 | Thoth 29 | 9.30 from noon | Mar. | 19 | Mar. | 19 | + 0 | 45 |
| II. | 720 | 28 | " 2 | " 18 | " " | " | 21 | " | 22 | + 1 | 23 |
| III. | 720 | 28 | " 2 | Phamenoth 15 | 8.30 | Sept. | 1 | " | 1 | - 1 | 18 |
| IV. | 621 | 127 | Nabopolassar, 5 | Athyr 27 | 17.50 | April | 22 | April | 22 | + 1 | 48 |
| V. | 523 | 225 | Cambysis, 7 | Phamenoth 17 | 11 | July | 16 | July | 17 | + 1 | 59 |
| VI. | 502 | 246 | Darii, 20 | Epiphi 28 | 11.36 | Nov. | 19 | Nov. | 20 | + 2 | 2 |
| VII. | 491 | 257 | " 31 | Tybi 3 | 11.30 | April | 25 | April | 25 | - 0 | 29 |
| VIII. | 383 | 366 | Phanocratus | Thoth 26 | 19.20 | Dec. | 23 | Dec. | 23 | - 1 | 4 |
| IX. | 382 | 366 | " | Phamenoth 24 | 9.6 | June | 18 | June | 18 | + 1 | 39 |
| X. | 382 | 367 | Evander | Thoth 16 | 11.0 | Dec. | 12 | Dec. | 12 | - 1 | 34 |
| XI. | 201 | 547 | Calippic Per. II., 54 | Mesore 16 | 7.0 | Sept. | 22 | Sept. | 22 | + 1 | 17 |
| XII. | 200 | 548 | " II., 55 | Meccheir 9 | 13.20 | Mar. | 20 | Mar. | 20 | - 0 | 49 |
| XIII. | 200 | 548 | " " II., 55 | Mesore 5 | 14.15 | Sept. | 12 | Sept. | 12 | - 0 | 24 |
| XIV. | 174 | 574 | Philometor, 7 | Phamenoth 27 | 14.20 | May | 1 | May | 1 | - 1 | 31 |
| XV. | 141 | 607 | Calippic Per. III., 37 | Tybi 2 | 10.10 | Jan. | 27 | Jan. | 27 | - 1 | 32 |
| XVI. | 125 | 872 | Hadrian, 9 | Pachon 17 | 8.24 | April | 5 | April | 5 | - 0 | 53 |
| XVII. | 133 | 880 | " 17 | Pauni 20 | 11.15 | May | 6 | May | 7 | + 0 | 38 |
| XVIII. | 134 | 882 | " 19 | Cherac 2 | 11.0 | Oct. | 20 | Oct. | 20 | + 0 | 25 |
| XIX. | 136 | 883 | " 20 | Pharmuthi 19 | 16.0 | Mar. | 6 | Mar. | 6 | - 1 | 20 |

ANCIENT CHINESE ECLIPSES.

The following thirty-six solar eclipses have a special value as verifying ancient Chinese history. They are taken from the *Chun Tsiu*, a history or chronicle of the kingdom of Lu, from B.C. 722 to B.C. 481, written by the celebrated philosopher Confucius. With the exception of four, all these eclipses have been verified. "That some error exists in these four is admitted by the Chinese themselves, but they attribute it to the transcribers, and not to Confucius. As the hour and quantity are not expressed they are less useful to the astronomer, but they are of immense value in authenticating the ancient Chinese history and determining its chronology."¹ We have taken the dates of these eclipses from Lindsay's "Chrono-Astrolabe." The correspondence of these dates with new moons in the *Tables* is interesting, and confirms both the eclipses and the *Tables*.

¹ J. B. Lindsay. "Chrono-Astrolabe," p. 98.

ANCIENT CHINESE ECLIPSES, FROM THE CHUN TSU, OF CONFUCIUS.

| No. | | Date indicated. B.C. | New Moon. Tables. Jerusalem Civil Time. |
|-----|---|-------------------------|---|
| | | | d. h. m. |
| 1 | "In the year Sin-Yiu (the 58th of the cycle of 60) the 3rd of the Prince Yin Kung, in the season of spring, the 2nd moon, the day Ki-szi (being the 6th of the cycle of 60 days) the sun was eclipsed." | 720. Feb. 22 | Feb. . 22 1 43 |
| 2 | "In the year of the cycle Jin-Shin (the 9th) being the 3rd year of the Prince Hwan Kung, in autumn, the 7th moon, the day Jin-chin (29th) at new moon, the sun suffered a total eclipse." | 709. July 17 | July . 17 8 22 |
| 3 | "In the 17th year of Hwan Kung being ping-seuh (23rd of cycle) winter, the 10th moon, at new moon, the sun had an eclipse." | 695. Oct. 10 | Oct. . 10 10 35 |
| 4 | "In the year Yih-szi (42nd of the cycle) being the 18th of Chwang Kung, spring season, 3rd moon, the sun was eclipsed." | 676. April 15 | April. 15 10 9 |
| 5 | "In the year Jin-tszi (49th of the cycle) 25th year of Chwang Kung, beginning of the 6th moon, on the day Sin-wi (8th of the cycle of days) the sun had an eclipse." | 669. May 27 | May . 27 8 7 |
| 6 | "In the year Kwei-chan (50th of cycle), the 26th of Chwang Kung, winter, 12th moon, the day Kwei-hai (6th of cycle of days), the sun was eclipsed." | 658. Nov. 19 | Nov. . 19 6 11 |
| 7 | "In the 30th year of Chwang Kung, being Ting-szi (54th year of the cycle), on the first of the 9th moon, being the day Kang-wu (7th of the cycle of days), the sun was eclipsed." | 641. Aug. 28 | Aug. 28 5 1 |
| 8 | "In the year Pang-yin 3rd of the cycle, being the 5th of Hi Kung, the first of the 9th moon, the day Wu-shin (4th of the cycle of days), the sun was eclipsed." | 635. Aug. 19 | Aug. 19 7 12 |

| N°. | | Date indicated. B.C. | New Moon. Tables. Jerusalem Civil Time. |
|-----|--|-------------------------|--|
| 9 | "In the year K wei-yiu (10th of the cycle), being the 12th of Hi Kung, in the spring season, 3rd moon, on the day Kang-wu (7th of the cycle of days), the sun was eclipsed." | 648. April 6 | d. h. m. April. 6 9 39 |
| 10 | "In the year Ping-tsz (13th of the cycle), being the 15th of Hi Kung, in summer, the 5th moon, the sun was eclipsed." (Cannot be verified.) | 645. | |
| 11 | "In the year Yih-wi (32nd of the cycle), being the first of Wan Kung, in the 2nd moon, the day Kwei-hai (60th of the cycle of days), the sun was eclipsed." | 626. Feb. 3 | Feb. . 3 8 10 |
| 12 | "In the year Ki-yiu (46th of the cycle), the 15th of Wan Kung, on the first day of the 6th moon, being sin-chau (38th of the cycle of days), the sun was eclipsed." | 612. April 28 | April. 28 0 53 |
| 13 | "In the year Kang-shin (57th of the cycle), the 8th of Seuen Kung, autumn, 7th moon, the day Kia-tsz (1st of the cycle), the sun suffered a total eclipse." | 601. Sept. 20 | Sept. . 20 8 22 |
| 14 | "In the year Jin-Seuh (59th of the cycle), the 10th of Seuen Kung, summer, at the 4th moon, the day Ping-chin (53rd of the cycle), the sun was eclipsed." | 599. Mar. 6 | Mar. . 6 3 17 |
| 15 | "In the year Ki-szi (6th of the cycle), the 17th of Seuen Kung, at the 6th moon, the day Kwei-mao (40th of the cycle of days), the sun eclipsed." (Not verified.) | 592. | |
| 16 | "In the year Pingseuh (23rd of the cycle), the 16th of Ching Kung, at the beginning of the 6th moon, on the day Ping-yin (3rd of the cycle of days), the sun was eclipsed." | 575. May 9 | May . 9 7 43 |
| 17 | "In the year Ting-hai (24th of the cycle), the 17th of Ching Kung, the first day of the 12th moon, being Ting-szi (54th of the cycle), the sun was eclipsed." | 574. Oct. 22 | Oct. . 22 2 35 |
| 18 | "In the year Jin-yin (39th of the cycle), the 14th of Siang Kung, the 1st day of the 2nd moon, being Yih-wi (the 32nd of the cycle of days), the sun was eclipsed." | 559. Jan. 14 | Jan. . 14 9 14 |

ANCIENT CHINESE ECLIPSES, FROM THE CHUN TSIU, OF CONFUCIUS.

| No. | | Date indicated. B.C. | New Moon. Tables. Jerusalem Civil Time. |
|-----|---|-------------------------|---|
| 1 | "In the year Sin-Yin (the 58th of the cycle of 60) the 3rd of the Prince Yin Kung, in the season of spring, the 2nd moon, the day Ki-szi (being the 6th of the cycle of 60 days) the sun was eclipsed." | 720. Feb. 22 | d. h. m. Feb. . 22 1 43 |
| 2 | "In the year of the cycle Jin-Shin (the 9th) being the 3rd year of the Prince Hwan Kung, in autumn, the 7th moon, the day Jin-chin (29th) at new moon, the sun suffered a total eclipse." | 709. July 17 | July . 17 8 22 |
| 3 | "In the 17th year of Hwan Kung being ping-seuh (23rd of cycle) winter, the 10th moon, at new moon, the sun had an eclipse." | 695. Oct. 10 | Oct. . 10 10 35 |
| 4 | "In the year Yih-szi (42nd of the cycle) being the 18th of Chwang Kung, spring season, 3rd moon, the sun was eclipsed." | 676. April 15 | April. 15 10 9 |
| 5 | "In the year Jin-tazi (49th of the cycle). 25th year of Chwang Kung, beginning of the 6th moon, on the day Sin-wi (8th of the cycle of days) the sun had an eclipse." | 669. May 27 | May . 27 8 7 |
| 6 | "In the year Kwei-chau (50th of cycle), the 26th of Chwang Kung, winter, 12th moon, the day Kwei-hai (6th of cycle of days), the sun was eclipsed." | 653. Nov. 10 | Nov. . 10 6 11 |
| 7 | "In the 30th year of Chwang Kung, being Ting-szi (54th year of the cycle), on the first of the 9th moon, being the day Kang-wu (7th of the cycle of days), the sun was eclipsed." | 651. Aug. 23 | Aug. 23 8 51 |
| 8 | "In the year Ping-yin (3rd of the cycle), being the 5th of Hi Kung, the first of the 9th moon, the day Wu-shin (45th of the cycle of days), the sun was eclipsed." | 635. Aug. 19 | Aug. . 19 7 43 |

| N ^o . | | Date indicated. B.C. | New Moon. Tables. Jerusalem Civil Time. | |
|------------------|---|-------------------------|--|------|
| | | | d. h. m. | |
| 9 | "In the year Kwei-yiu (10th of the cycle), being the 12th of Hi Kung, in the spring season, 3rd moon, on the day Kang-wu (7th of the cycle of days), the sun was eclipsed." | 648. April 6 | April. 6 | 9 39 |
| 10 | "In the year Ping-tsz (13th of the cycle), being the 15th of Hi Kung, in summer, the 5th moon, the sun was eclipsed." (Cannot be verified.) | 645. | | |
| 11 | "In the year Yih-wi (32nd of the cycle), being the first of Wan Kung, in the 2nd moon, the day K wei-hai (60th of the cycle of days), the sun was eclipsed." | 626. Feb. 3 | Feb. . 3 | 8 10 |
| 12 | "In the year Ki-yiu (46th of the cycle), the 15th of Wan Kung, on the first day of the 6th moon, being sin-chau (38th of the cycle of days), the sun was eclipsed." | 612. April 28 | April. 28 | 0 53 |
| 13 | "In the year Kang-shin (57th of the cycle), the 8th of Seuen Kung, autumn, 7th moon, the day Kia-tsz (1st of the cycle), the sun suffered a total eclips." | 601. Sept. 20 | Sept. . 20 | 8 22 |
| 14 | "In the year Jin-Seuh (59th of the cycle), the 10th of Seuen Kung, summer, at the 4th moon, the day Ping-chin (53rd of the cycle), the sun was eclipsed." | 599. Mar. 6 | Mar. . 6 | 3 17 |
| 15 | "In the year Ki-szi (6th of the cycle), the 17th of Seuen Kung, at the 6th moon, the day Kwei-mao (40th of the cycle of days), the sun eclipsed." (Not verified.) | 592. | | |
| 16 | "In the year Pingseuh (23rd of the cycle), the 16th of Ching Kung, at the beginning of the 6th moon, on the day Ping-yin (3rd of the cycle of days), the sun was eclipsed." | 575. May 9 | May . 9 | 7 43 |
| 17 | "In the year Ting-hai (24th of the cycle), the 17th of Ching Kung, the first day of the 12th moon, being Ting-szi (54th of the cycle), the sun was eclipsed." | 574. Oct. 22 | Oct. . 22 | 2 35 |
| 18 | "In the year Jin-yin (39th of the cycle), the 14th of Siang Kung, the 1st day of the 2nd moon, being Yih-wi (the 82nd of the cycle of days), the sun was eclipsed." | 559. Jan. 14 | Jan. . 14 | 9 14 |

| No. | | Date indicated. B.C. | New Moon. <i>Tables.</i> Jerusalem Civil Time. |
|-----|--|-------------------------|---|
| | | | d. h. m. |
| 19 | "In the year Kwei-mau (40th of the cycle), being the 15th of Siang Kung, autumn, the 8th moon, on the day Ting-szi (54th of the cycle of days), there was an eclipse of the sun." | 558. May 31 | May . 30 23 15 |
| 20 | "In the year Wu-shin (45th of the cycle), being the 20th of Siang Kung, in winter, the 1st day of the 10th moon, being Ping-chin (the 58rd of the cycle of days), the sun was eclipsed." | 553. Aug. 31 | Aug. . 31 11 3 |
| 21 | "In the year Ki-yiu (46th of the cycle), the 21st of Siang Kung, the 1st day of the 9th moon, being Kang-Seuh (47th of the cycle of days), the sun was eclipsed." | 552. Aug. 20 | Aug. . 20 11 23 |
| 22 | "In the year Ki-yiu (46th of the cycle), the 21st of Siang Kung, 1st day of 10th moon, being Kang-chin (17th of cycle), the sun eclipsed." (Not verified.) | | |
| 23 | "In the year Sin-hai (48th of the cycle), being the 23rd of Siang Kung, in the spring season, on the day Kwei-yiu (10th of the cycle of days), the sun was eclipsed." | 550. Jan. 5 | Jan. . 5 5 50 |
| 24 | "In the 24th year of Siang Kung, being Jin-tsz (49th of the cycle), autumn, beginning of the 7th moon, on the day Kia-tsz (1st of the cycle of days), the sun had a total eclipse." | 549. June 19 | June . 19 6 19 |
| 25 | "In the beginning of the 8th moon, on the day Kwei-szi (30th of the cycle of days), the sun was eclipsed." (Cannot be verified for day assigned.) | 549. July 18 | July . 18 13 20 |
| 26 | "In the 27th year of Siang Kung, being Yih-mao (52nd of the cycle), winter, beginning of the 12th moon, the day Yih-hai (12th of the cycle of days), the sun was eclipsed." | 546. Oct. 13 | Oct. . 13 2 13 |
| 27 | "In the 7th year of Chao-Kung, being Ping-yiu (3rd of the cycle), summer, beginning of the 4th moon, on the day Kia-chin, the sun was eclipsed." | 535. Mar. 18 | Mar. . 18 7 15 |

| No. | | Date indicated. B.C. | New Moon. Jerusalem Civil Time. |
|-----|---|-------------------------|------------------------------------|
| | | | d. h. m. |
| 28 | "In the 15th year of Chao Kung, being Kia-seuh (11th of the cycle), beginning of the 6th moon, on the day Ting-szi (54th of the cycle), the sun was eclipsed." | 527. April 18 | April. 18 7 23 |
| 29 | "In the 17th year of Chao Kung, being Ping-tszi (13th of the cycle), summer, beginning of the 6th moon, the day Kia-seuh (11th of the cycle of days), the sun was eclipsed." | 525. Aug. 21 | Aug. . 21 13 36 |
| 30 | "In the 21st year of Chao Kung, being Kang-chin (17th of the cycle), autumn, beginning of the 7th moon, on the day Jin-wu (19th of the cycle of days), the sun was eclipsed." | 521. June 10 | June . 10 5 18 |
| 31 | "In the 22nd year of Chao Kung, being Sin-szi (18th of the cycle), beginning of the 12th moon, the day Kwei-yiu (10th of the cycle of days), the sun was eclipsed." | 520. Nov. 23 | Nov. . 23 5 8 |
| 32 | "In the 24th year of Chao Kung, being Kwei-wi (20th of the cycle), summer, beginning of the 5th moon, the day Yih-wi (32nd of the cycle of days), the sun was eclipsed." | 518. April 9 | April. 9 4 21 |
| 33 | "In the 31st year of Chao Kung, being Kang-yin (27th of the cycle), beginning of the 12th moon, the day Sin-hai (48th of the cycle), the sun was eclipsed." | 511. Nov. 14 | Nov. . 14 4 4 |
| 34 | "In the 5th year of Ting Kung, being Ping-shin (33rd of the cycle), spring season, beginning of the 3rd moon, the day Sin-hai (48th of the cycle), the sun was eclipsed." | 505. Feb. 16 | Feb. . 16 9 15 |
| 35 | "In the 12th year of Ting Kung, being Kwei-mao (40th of the cycle), beginning of the 11th moon, the day Ping-yin (3rd of the cycle of days), the sun was eclipsed." | 498. Sept. 22 | Sept. . 22 9 17 |
| 36 | "In the 15th year of Ting Kung, being Ping-wu (43rd of the cycle), beginning of the 8th moon, the day Kang-chin (17th of the cycle), the sun was eclipsed." | 495. July 22 | July . 22 5 6 |

Coming down to later times, we add the following twelve historically recorded lunar eclipses, as specimens of the very large number of historical eclipses verified by the Tables.

LUNAR ECLIPSES.

| B.C. | Day. | Hour. | Locality. | Authority. | Tables. Jerusalem Civil Time. | |
|------------|-----------|---------------------------------|---|------------------------------------|-------------------------------------|----|
| | | | | | d. | h. |
| 45 | Nov. 7. | Two hours after midnight. | Rome. | Ovid, "Met." | Nov. 7 | 2 |
| 4 | Mar. 13. | Night of 12th to 13th March. | Judea. | Josephus, "Antiq.," xvii. 6, 4. | Mar. 13 | 3 |
| A.D. 14 | Sept. 27. | Four in the morning. | Tacitus, "Annals." | Soon after death of Augustus. | Sept. 27 | 5 |
| 364 | Nov. 26. | | Theon, "Commentary on Almagest of Ptolemy." | | Nov. 26 | 3 |
| 452 | Sept. 15. | | 8th year of Merovius. King of Franks. Trithemius. | | Sept. 15 | 4 |
| 716 | Jan. 13. | "Till mid- night." | In time of Pope Gregory. "14th Indiction." Anastasius. | | Jan. 13 | 20 |
| 800 | Jan. 15. | Eight in the evening. | Saxon Chronicle. | | Jan. 15 | 22 |
| 883 | July 23. | | Observed by Albatani. | | July 23 | 18 |
| 1204 | April 16. | | Matthew Paris. | | April 16 | 3 |
| 1248 | June 7. | | " " | | June 7 | 23 |
| 1457 | Sept. 3. | 11.17 p.m. (Struyk). | Observed by Regiomontanus. | | Sept. 3 | 23 |
| 1460 | July 3. | 7.31 p.m. | " " | | July 3 | 22 |

The Tables are of practical value, not only in confirming dates, but in the discovery of errors. The following errors in the list of eclipses given in Ferguson's "Astronomy" (taken professedly from Struyk and Ricciolus) have been discovered by a comparison of his dates with those in the Tables. In each of these instances the dates in the *Tables* are confirmed by Oppolzer's invaluable "Canon der Finsternisse."

ERRATA IN FERGUSON'S LIST OF ECLIPSES.

FROM STRUYK'S CATALOGUE TO A.D. 1485; REST FROM RICCIOLUS.
REDUCED TO CIVIL TIME.

| B.C. | Character of Eclipse. | Date—Ferguson. | | | Tables. Jerusalem Civil Time. | | |
|------|--------------------------|----------------|----|----|----------------------------------|----|----|
| | | d. | h. | m. | d. | h. | m. |
| 403 | Solar | Aug. 28 | 17 | 53 | Aug. 23 | 18 | 8 |
| 357 | Lunar | Aug. 29 | 19 | 29 | Aug. 9 | 18 | 53 |
| 188 | Solar | July 7 | 8 | 38 | July 17 | 9 | 5 |
| 2 | " | Feb. 2 | 8 | 8 | Feb. 5 | 2 | 59 |
| A.D. | | | | | | | |
| 290 | " | May 15 | 15 | 20 | May 25 | 23 | 40 |
| 787 | " | Sept. 15 | 8 | 43 | Sept. 16 | 10 | 37 |
| 989 | " | May 28 | 18 | 54 | May 8 | 1 | 50 |
| 1207 | " | Feb. 27 | 22 | 50 | Feb. 28 | 13 | 1 |
| 1228 | " | Dec. 27 | 21 | 55 | Dec. 28 | 10 | 15 |
| 1327 | Lunar | Sept. 1 | 6 | 26 | Sept. 2 | 7 | 23 |
| 1341 | " | Nov. 29 | 0 | 23 | Nov. 24 | 1 | 16 |
| 1491 | Solar | Mar. 8 | 14 | 19 | May 8 | 15 | 21 |
| 1495 | Lunar | Mar. 11 | 4 | | none | | |
| 1499 | " | June 23 | 5 | | none | | |
| 1499 | Solar | Aug. 24 | 6 | | none | | |
| 1499 | Lunar | Nov. 17 | 22 | | none | | |
| 1500 | Solar | Mar. 27 | | | May 28 | 2 | 12 |

ERRORS IN EQUINOX DATES AND DOMINICAL LETTERS.

Greswell's otherwise valuable Chronological Tables are wrong in their Julian Equinox dates and Dominical Letters from their commencement to the third century A.D. In the table which follows, it will be seen that while Greswell's dates agree on the whole with those in our *Tables from the third century A.D. onward*, they differ from them in all the preceding centuries. The error of Greswell's tables has been clearly demonstrated by Browne—*Ordo Sæclorum*, pp. 522–526—and by other chronologers.

ERROR OF GRESWELL'S CHRONOLOGICAL TABLES. "FASTI CATHOLICI."

| B.C. | Fasti Catholici. | | Tables. | | A.D. | Fasti Catholici | | Tables. | |
|------|--------------------|--------------|-------------------|--------------|------|--------------------|--------------|--------------------|--------------|
| | Julian Equinox. | Dom. Let. | Vernal Equinox | Dom. Let. | | Julian Equinox. | Dom. Let. | Vernal Equinox. | Dom. Let. |
| 1622 | Apr. 7 | E | Apr. 5 | G | 79 | Mar. 23 | A | Mar. 23 | C |
| 1522 | " 6 | G | " 4 | A | 179 | " 22 | C | " 22 | D |
| 1422 | " 5 | B | " 3 | B | 279 | " 21 | E | " 21 | E |
| 1322 | " 4 | D | " 2 | C | 379 | " 20 | F | " 20 | F |
| 1222 | " 3 | F | " 2 | D | 479 | " 20 | G | " 19 | G |
| 1122 | " 3 | G | " 1 | E | 579 | " 19 | A | " 19 | A |
| 1022 | " 2 | B | Mar. 31 | F | 679 | " 18 | B | " 18 | B |
| 922 | " 1 | D | " 30 | G | 779 | " 17 | C | " 17 | C |
| 822 | Mar. 31 | F | " 30 | A | 879 | " 16 | D | " 16 | D |
| 722 | " 30 | A | " 29 | B | 979 | " 16 | E | " 16 | E |
| 622 | " 28 | C | " 28 | C | 1079 | " 15 | F | " 15 | F |
| 522 | " 27 | E | " 27 | D | 1179 | " 14 | G | " 14 | G |
| 422 | " 27 | F | " 26 | E | 1279 | " 13 | A | " 13 | A |
| 322 | " 26 | A | " 26 | F | 1379 | " 13 | B | " 12 | B |
| 222 | " 25 | C | " 25 | G | 1479 | " 12 | C | " 12 | C |
| 122 | " 24 | E | " 24 | A | 1579 | " 11 | D | " 11 | D |
| 22 | " 23 | G | " 23 | B | 1679 | " 10 | E | " 10 | E |
| | | | | | 1779 | " 10 | F | " 9 | F |
| | | | | | 1879 | " 9 | G | " 9 | G |

2. *The second practical use of the Tables is in the ascertainment or verification of series of dates.*

The Tables possess a special value as casting a clear, direct light on the recorded dates of ancient and modern calendars, Jewish, Grecian, Roman, Christian, Mohammedan, etc. In illustration of the use of the Tables in the study of this branch of Chronology, we present, in the first place, specimens of the two principal Greek Calendars—the Octaëteris, or 8-years Calendar, and the Calendar of the celebrated Metonic Cycle (19-years Calendar), with the corresponding dates in the *Tables*. The Delphian Octaëteris is that given by Greswell in "*Origenes Kalendaris Hellenicæ*," vol. vi., p. 666.

DELPHIAN OCTAËTERIS.

DATES FROM THE TABLES, JERUSALEM CIVIL TIME.

Epoch, July 31, B.C. 542.

| | | Ἐυδισπω- τρίπιος. | Ποιτρί- πιος. | Ἀποτρί- πιος. | Ἀπελλατός. | Δαίδαφό- ριος. | Ἡράτιος. | Βίστος. | Βοαθός. | Θευξένιος. | Ἡράκλειος. | Βουκάτιος. | Εἰλατός. | Εἰλαός Β. |
|-----|--------|----------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|--------------------|---------------------|--------------------|
| | Cycle. | i. 30. | ii. 29. | iii. 30. | iv. 29. | v. 30. | vi. 29. | vii. 30. | viii. 29. | ix. 30. | x. 29. | xi. 30. | xii. 29. | xiii. 30. |
| 542 | i. | July 31 d. 10 h. | Aug. 30 d. 0 h. | Sept. 28 d. 17 h. | Oct. 28 d. 12 h. | Nov. 27 d. 7 h. | Dec. 27 d. 1 h. | Jan. 25 d. 17 h. | Feb. 24 d. 6 h. | Mar. 24 d. 16 h. | April 23 d. 23 h. | May 22 d. 6 h. | June 20 d. 13 h. | |
| 541 | ii. | July 19 d. 21 h. | Aug. 18 d. 7 h. | Sept. 16 d. 20 h. | Oct. 16 d. 12 h. | Nov. 15 d. 6 h. | Dec. 15 d. 2 h. | Jan. 13 d. 21 h. | Feb. 12 d. 14 h. | Mar. 14 d. 4 h. | April 12 d. 15 h. | May 11 d. 23 h. | June 10 d. 6 h. | |
| 540 | iii. | July 9 d. 13 h. | Aug. 7 d. 21 h. | Sept. 6 d. 6 h. | Oct. 5 d. 18 h. | Nov. 4 d. 8 h. | Dec. 4 d. 2 h. | Jan. 2 d. 20 h. | Feb. 1 d. 15 h. | Mar. 3 d. 8 h. | April 1 d. 23 h. | May 1 d. 12 h. | May 30 d. 22 h. | June 29 d. 6 h. |
| 539 | iv. | July 28 d. 14 h. | Aug. 26 d. 22 h. | Sept. 25 d. 7 h. | Oct. 24 d. 18 h. | Nov. 23 d. 7 h. | Dec. 22 d. 22 h. | Jan. 21 d. 15 h. | Feb. 20 d. 8 h. | Mar. 22 d. 1 h. | April 20 d. 17 h. | May 20 d. 7 h. | May 18 d. 19 h. | |
| 538 | v. | July 18 d. 5 h. | Aug. 16 d. 14 h. | Sept. 14 d. 23 h. | Oct. 14 d. 9 h. | Nov. 12 d. 20 h. | Dec. 12 d. 8 h. | Jan. 10 d. 21 h. | Feb. 9 d. 11 h. | Mar. 10 d. 2 h. | April 8 d. 18 h. | May 8 d. 9 h. | May 7 d. 0 h. | July 6 d. 14 h. |
| 537 | vi. | Aug. 5 d. 3 h. | Sept. 3 d. 14 h. | Oct. 3 d. 1 h. | Nov. 1 d. 11 h. | Nov. 30 d. 22 h. | Dec. 30 d. 9 h. | Jan. 28 d. 20 h. | Feb. 27 d. 8 h. | Mar. 28 d. 21 h. | April 27 d. 10 h. | May 27 d. 1 h. | May 25 d. 17 h. | |
| 536 | vii. | July 25 d. 8 h. | Aug. 23 d. 23 h. | Sept. 22 d. 13 h. | Oct. 22 d. 2 h. | Nov. 20 d. 14 h. | Dec. 20 d. 1 h. | Jan. 18 d. 11 h. | Feb. 16 d. 21 h. | Mar. 18 d. 7 h. | April 16 d. 17 h. | May 16 d. 4 h. | May 14 d. 18 h. | |
| 535 | viii. | July 14 d. 9 h. | Aug. 13 d. 1 h. | Sept. 11 d. 18 h. | Oct. 11 d. 10 h. | Nov. 10 d. 2 h. | Dec. 9 d. 15 h. | Jan. 8 d. 3 h. | Feb. 6 d. 13 h. | Mar. 7 d. 22 h. | April 6 d. 6 h. | May 5 d. 15 h. | May 4 d. 0 h. | July 3 d. 12 h. |

INTERCALARY MONTHS IN THE METONIC CYCLE,

From the first year of the cycle, commencing with the new moon nearest to the Summer Solstice, B.C. 482, to the adoption of the Cycle of Calippus, containing four Metonic periods, or 76 years, July, A.C. 380. (Dates from Tables, Jerus. C. T.).

| Inter- calary Years. | New Moon Intercalary B.C. Month. | New Moon Intercalary B.C. Month. | New Moon Intercalary B.C. Month. | New Moon Intercalary B.C. Month. | New Moon Intercalary B.C. Month. | New Moon Intercalary B.C. Month. |
|----------------------------|--|--|--|--|--|--|
| III. | 482 June 16 | 410 June 12 | 391 June 12 | 372 June 12 | 353 June 12 | 334 June 13 |
| V. | 429 " 12 | 408 " 20 | 389 " 19 | 370 " 21 | 351 " 20 | 332 " 20 |
| VIII. | 427 " 20 | 405 " 17 | 386 " 18 | 367 " 17 | 348 " 17 | |
| XI. | 424 " 17 | 402 " 14 | 383 " 14 | 364 " 13 | 345 " 14 | |
| XIII. | 421 " 14 | 400 " 22 | 381 " 21 | 362 " 22 | 343 " 22 | |
| XVI. | 419 " 22 | 397 " 19 | 378 " 19 | 359 " 19 | 340 " 18 | |
| XIX. | 416 " 19 | 394 " 16 | 375 " 15 | 356 " 15 | 337 " 15 | |
| | 413 " 15 | | | | | |

Many references occur in the writings of Josephus to dates connected with the history of the Jewish war. A list of these is given in Browne, "Ordo Sæclorum," p. 537-544, together with the following table of the Jewish and Syro-macedonian months in the years A.D. 66-70. These dates are confirmed, and to some extent corrected, by those in our *Tables*.

JEWISH AND SYROMACEDONIAN MONTHS, A.D. 66-70. (BOWNE, ORDO SECLORUM.)

| Jewish and Syromacedonian M. | Days. | A.D. 66. | A.D. 67. | Days. | A.D. 68. | A.D. 69. | A.D. 70. |
|------------------------------|---------------|----------------------------------|--|---------------|-------------------------------------|-----------------------------------|------------------------------------|
| 1. Nisan | 1 15 30 | S Mar. 16 " " April 14 | Th Mar. 5 " April 3 | 1 15 29 | W Mar. 23 " April 6 " " 20 | S Mar. 12 " " 26 " April 9 | Sa Mar. 31 " April 14 " " 28 |
| Xanthicus . . . | | | | | | | |
| 2. Ijar | 1 29 | Tu April 15 " May 18 | Sa April 4 " May 2 | 1 30 | Th April 21 F May 20 | M April 10 Tu May 9 | S April 29 M May 28 |
| Artemisius . . . | | | | | | | |
| 3. Sivan | 1 30 | W May 14 Th June 12 | S May 3 M June 1 | 1 29 | S May 21 " June 18 | W May 10 " June 7 | Tu May 29 " June 26 |
| Desins | | | | | | | |
| 4. Thamuz | 1 29 | F June 13 " July 11 | Tu June 2 " " 30 | 1 30 | S June 19 M July 18 | Th June 8 F July 7 | W June 27 Th July 26 |
| Panemus | | | | | | | |
| 5. Ab | 1 30 | Sa July 12 S Aug. 10 | W July 1 Th " 30 | 1 29 | Tu July 19 " Aug. 16 | Sa July 8 " Aug. 5 | F July 27 " Aug. 24 |
| Lous | | | | | | | |
| 6. Elul | 1 29 | M Aug. 11 " Sept. 8 | F July 31 " Aug. 28 | 1 30 | W Aug. 17 Th Sept. 15 | S Aug. 6 M Sept. 4 | Sa Aug. 25 S Sept. 23 |
| Gorpiceus | | | | | | | |
| 7. Tisri | 1 15 30 | Tu Sept. 9 W Oct. 8 | Sa Aug. 29 S " Sept. 12 " " 27 | 1 15 29 | F Sept. 16 " " 30 " Oct. 14 | Tu Sept. 5 " " 19 " Oct. 3 | M Sept. 24 " Oct. 8 " " 22 |
| Hyperberetæus . | | | | | | | |
| 8. Marchesvan . . | 1 29 | Th Oct. 9 " Nov. 6 | M Sept. 28 " Oct. 26 | 1 30 | Sa Oct. 15 S Nov. 13 | W Oct. 4 Th Nov. 2 | Tu Oct. 23 W Nov. 21 |
| Dius | | | | | | | |
| 9. Kisleu | 1 30 | F Nov. 7 Sa Dec. 6 | Tu Oct. 27 W Nov. 25 | 1 29 | S Nov. 14 " Dec. 12 | F Nov. 3 " Dec. 1 | Th Nov. 22 " Dec. 20 |
| Appellæus | | | | | | | |
| 10. Tebeth | 1 | S Dec. 7 A.D. 67. " Jan. 4 | Th Nov. 26 " Dec. 24 | 1 30 | Tu Dec. 13 A.D. 69. W Jan. 11 | Sa Dec. 2 S " 31 | F Dec. 21 " " " " " " " " |
| Andynæus | 29 | | | | | | |
| 11. Shebat | 1 | M Jan. 5 | F Dec. 25 A.D. 68, B. Sa Jan. 23 | 1 29 | Th Jan. 12 " Feb. 9 | M Jan. 1 A.D. 70. " Jan. 29 | " " " " " " " " |
| Peritius | 30 | Tu Feb. 3 | | | | | |
| Adar | 1 | W Feb. 4 | S Jan. 24 | 1 | F Feb. 10 | Tu Jan. 30 | " " " " " " " " |
| Dysurus | 29 | " Mar. 4 | " Feb. 21 | 30 | Sa Mar. 11 | W Feb. 28 | " " " " " " " " |
| 13. Ve-adar | ... | ... | 1. M Feb. 22 30. Tu Mar. 22 | ... | ... | 1. Th Mar. 1 30. F Mar. 30 | " " " " " " " " |
| Dioscorus | ... | ... | | ... | ... | | " " " " " " " " |

JEWISH AND SYROMACEDONIAN MONTHS, A.D. 66-70.

DATES FROM TABLES, JERUSALEM CIVIL TIME.

18.

| Jewish and Syromacedonian M. | A.D. 66. | A.D. 67. | A.D. 68. | A.D. 69. | A.D. 70. |
|------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| 1. Nisan | d. h. Mar. . 14 20 Friday | d. h. Mar. . 4 3 Wednesday | d. h. Mar. . 22 3 Tuesday | d. h. Mar. . 11 19 Saturday | d. h. Mar. . 20 20 Friday |
| 2. Ijar | d. h. April. 13 11 Sunday | d. h. April. 2 15 Thursday | d. h. April. 20 12 Wednesday | d. h. April. 10 3 Monday | d. h. April. 29 3 Sunday |
| 3. Sivan | d. h. May . 13 2 Tuesday | d. h. May . 2 4 Saturday | d. h. May . 19 23 Thursday | d. h. May . 9 11 Tuesday | d. h. May . 28 10 Monday |
| 4. Thamuz | d. h. June . 11 18 Wednesday | d. h. May . 31 18 Sunday | d. h. June . 18 11 Saturday | d. h. June . 7 19 Wednesday | d. h. June . 26 17 Tuesday |
| 5. Ab | d. h. July . 11 8 Friday | d. h. June . 30 9 Tuesday | d. h. July . 18 2 Monday | d. h. July . 7 6 Friday | d. h. July . 26 3 Thursday |
| 6. Elul | d. h. Aug. . 9 21 Saturday | d. h. July . 30 1 Thursday | d. h. Aug. . 16 18 Tuesday | d. h. Aug. . 5 19 Saturday | d. h. Aug. . 24 14 Friday |
| 7. Tisri | d. h. Sept. . 8 9 Monday | d. h. Aug. . 28 17 Friday | d. h. Sept. . 15 11 Thursday | d. h. Sept. . 4 11 Monday | d. h. Sept. . 23 5 Sunday |
| 8. Marchesvan | d. h. Oct. . 7 21 Tuesday | d. h. Sept. . 27 8 Sunday | d. h. Oct. . 15 4 Saturday | d. h. Oct. . 4 5 Wednesday | d. h. Oct. . 22 23 Monday |
| 9. Kisleu | d. h. Nov. . 6 8 Thursday | d. h. Oct. . 26 21 Monday | d. h. Nov. . 13 20 Sunday | d. h. Nov. . 3 0 Friday | d. h. Nov. . 21 18 Wednesday |
| 10. Tebeth | d. h. Dec. . 5 19 Friday | d. h. Nov. . 25 10 Wednesday | d. h. Dec. . 13 11 Tuesday | d. h. Dec. . 2 18 Saturday | d. h. Dec. . 21 13 Friday |
| 11. Shebat | d. h. Jan. . 4 6 Sunday | d. h. Dec. . 24 21 Thursday | d. h. Jan. . 11 23 Wednesday | d. h. Jan. . 1 10 Monday | |
| 12. Adar | d. h. Feb. . 2 16 Monday | d. h. Jan. . 23 8 Saturday | d. h. Feb. . 10 10 Friday | d. h. Jan. . 31 0 Wednesday | |
| 13. Ve-adar | | d. h. Feb. . 21 18 Sunday | | d. h. Mar. . 1 11 Thursday | |

CANON OF S. HIPPOLYTUS.

The Octaëteris, or 8-years' lunar cycle, was one of the Paschal cycles in early use in the Christian Church. In the year A.D. 1551 was disinterred near the church of St. Laurence, at Rome, a marble monument of an ecclesiastic seated in a chair, on each side of which was an inscription in Greek; on the right side, a Paschal cycle beginning at the first year of Alexander Severus, with seven columns of dates; and on the left a table of corresponding Easter Sunday dates. The monument is preserved in the Vatican.

The exordium of the Canon is as follows:—"In the first year of the Emperor Alexander, the fourteenth of the Passover fell on the Ides of April, Saturday, the preceding year having received an intercalary month. In the succeeding years the day will be as is set down below in the Table. In the preceding years it fell as is here marked." The statue has been recognised as that of Hippolytus, Bishop of Portus, who wrote a treatise on the Passover, and constructed a 16-years Paschal cycle (the Octaëteris doubled).

We give here a copy of the Paschal Table of the monument. The first column contains the date of the 14th day of the Paschal moon, for 16 years, with the weekdays indicated by the first seven letters of the alphabet. The remaining columns contain only the weekdays, on the assumption that the Julian date recurs after a lapse of sixteen years. It is interesting to observe that the earliest Paschal limit in the Canon of Hippolytus is the 18th of March, which was, according to the *Acta Pilati*, the day of the Crucifixion, A.D. 29.

This venerable Christian calendar *is correct as to its weekdays throughout*, and also as to the coincidence of the full moon with its 14th day of the month *in the earlier entries*; but the later dates are out of harmony with the times of full moon, owing to the error of the 8-years' cycle, as will be seen by a comparison of the Julian dates in the first column of the Canon of Hippolytus, and those in the remaining columns, with the dates of the actual full moons from our lunar *Tables*. Thus, instead of the first date, April 13, being repeated in the years A.D. 222, 238, 254, 270, 286, 302, and 318, as in the Canon, the true dates of full moon in those years are April 14, 16, 19, 22, 26, 29, and May 2; the error growing with each repetition of the cycle, until it amounts to 18 days, and in its course making the Paschal *full* moon of the Canon of St. Hippolytus coincide with the *new* moon of the heavens. The error of the Canon in its *later*, and its correctness in its *earlier* dates, confirm the inscription it bears assigning its composition to the first year of the Emperor Alexander Severus, A.D. 222.

CANON OF S. HIPPOLYTUS.
(BROWNE, ORDO SACLORUM).

| 14th of the Moon. | A.D. | 1st Cycle. | A.D. | 2nd Cycle. | A.D. | 3rd Cycle. | A.D. | 4th Cycle. | A.D. | 5th Cycle. | A.D. | 6th Cycle. | A.D. | 7th Cycle. |
|-------------------|------|----------------------------|------|---------------------|------|--------------------|------|--------------------------|------|------------|------|------------|------|---------------------------------------|
| 1 13 April | 222 | Sat. | 228 | Fri. | 254 | Thurs. | 270 | Wed. | 286 | Tues. | 302 | Mon. | 318 | Sun. |
| 2 2 April | 3 | Wed. (Nativity) | 9 | Tues. | 5 | Mon. | 1 | Sun. | 7 | Sat. | 3 | Fri. | 9 | Thurs. |
| 3 21, 20 Mar. | 4 | Sun. (Hezekiah) | 240 | Sat. | 6 | Fri. } (Joshua) | 2 | Thurs. | 8 | Wed. | 4 | Tues. | 320 | Mon. |
| 4 9 April | 5 | Sat. (Josias) | 1 | Fri. | 7 | Thurs. | 3 | Wed. | 9 | Tues. | 5 | Mon. | 1 | Sun. |
| 5 29 Mar. | 6 | Wed. | 2 | Tues. | 8 | Mon. | 4 | Sun. | 290 | Sat. | 6 | Fri. | 2 | Thurs. |
| 6 18 Mar. | 7 | Sun. | 3 | Sat. | 9 | Fri. | 5 | Thurs. | 1 | Wed. | 7 | Tues. | 3 | Mon. |
| 7 5 April | 8 | Sat. | 4 | Fri. | 260 | Thurs. | 6 | Wed. (Joshua) Daniel) | 2 | Tues. | 8 | Mon. | 4 | Sun. |
| 8 25 Mar. | 9 | Wed. | 5 | Tues. | 1 | Mon. | 7 | Sun. | 3 | Sat. | 9 | Fri. | 5 | Thurs. |
| 9 13 April | 230 | Tues. | 6 | Mon. | 2 | Sun. | 8 | Sat. | 4 | Fri. | 310 | Thurs. | 6 | Wed. |
| 10 2 April | 1 | Sat. | 7 | Fri. | 3 | Thurs. | 9 | Wed. | 5 | Tues. | 1 | Mon. | 7 | Sun. } (Exode) |
| 11 21, 20 Mar. | 2 | Wed. | 8 | Tues. | 4 | Mon. | 290 | Sun. | 6 | Sat. | 2 | Fri. | 8 | Thurs. |
| 12 9 April | 3 | Tues. | 9 | Mon. | 5 | Sun. | 1 | Sat. | 7 | Fri. | 3 | Thurs. | 9 | Wed. } (Passover in the Desert) |
| 13 29 Mar. | 4 | Sat. | 250 | Fri. | 6 | Thurs. | 2 | Wed. | 8 | Tues. | 4 | Mon. | 330 | Sun. |
| 14 18 Mar. | 5 | Wed. | 1 | Tues. | 7 | Mon. | 3 | Sun. | 9 | Sat. | 5 | Fri. | 1 | Thurs. |
| 15 5 April | 6 | Tues. (Exodus) Daniel } | 2 | Mon. | 8 | Sun. | 4 | Sat. | 300 | Fri. | 6 | Thurs. | 2 | Wed. } (Ezra) |
| 16 25 Mar. | 7 | Sat. | 3 | Fri. } (Passion) | 9 | Thurs. | 5 | Wed. | 1 | Tues. | 7 | Mon. | 3 | Sun. |

EPACT IN THE CHRISTIAN CALENDAR.

In our modern calendar the epact for the year is given. The application of the dates in the *Tables* to the Christian calendar of past times casts interesting light on the origin of the ecclesiastical use of epact, or the time when it was first introduced from the Greek into the Christian calendar.

A discovery of the errors of the Octaëteris, and other similar cycles, led to the employment of epact. In old style the epact was *the age of the moon* on the first possible location of Easter day, the 22nd of March; in new style epact means the age of the moon on the 1st of January. The excess of the solar year above the lunar is 10 d. 21 h. In case the new moon falls on the 1st of January, its age on the following 1st of January will be 10 d. 21 h., or 11 days. In the second year it will be double this, or 22 days; and in the third year treble, or 31–32 days; of this quantity $29\frac{1}{2}$ days will form an intercalary month, and the remaining 3 days will be the epact for the year.

In the course of the 19-years' lunar cycle, the epact for the contained years will be 11, 22, 3, 14, 25, 6, 17, 28, 9, 20, 1, 12, 23, 4, 15, 26, 7, 18, 29 days. In the following table *this series of epact amounts stands in the first column*, while the *true* age of the moon on the 22nd of March is shown in three 19-years' periods, separated by 532 years. (The period of 532 years consists of the 28-years' solar cycle of the week, multiplied by the 19-years' lunar cycle.) It will be seen that while a comparison of the epact quantities in the first column with the age of the moon in the *central* sixth century column reveals a correspondence, in the first century column the age of the moon on the 22nd of March falls *short* of the assigned epact by 2 days throughout, and in the eleventh century column the dates are 2 days in *excess*. The correspondence in the centre column indicates

the antiquity of the ecclesiastical calendar, and confirms the historical date of its origin.¹

EPACT. OLD STYLE.

(JERUSALEM CIVIL TIME.)

| Epact. | A.D. | Age of Mean Moon. March 22. | | A.D. | Age of Mean Moon. March 22. | | A.D. | Age of Mean Moon. March 22. | |
|-----------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|-----------|
| <i>d.</i> | | <i>d.</i> | <i>h.</i> | | <i>d.</i> | <i>h.</i> | | <i>d.</i> | <i>h.</i> |
| 11 | 1 | 8 | 15 | 533 | 10 | 7 | 1065 | 12 | 0 |
| 22 | 2 | 19 | 6 | 534 | 20 | 23 | 1066 | 22 | 16 |
| 3 | 3 | 0 | 8 | 535 | 2 | 1 | 1067 | 3 | 18 |
| 14 | 4 | 11 | 23 | 536 | 13 | 16 | 1068 | 15 | 9 |
| 25 | 5 | 22 | 15 | 537 | 24 | 8 | 1069 | 26 | 0 |
| 6 | 6 | 3 | 17 | 538 | 5 | 10 | 1070 | 7 | 3 |
| 17 | 7 | 14 | 8 | 539 | 16 | 1 | 1071 | 17 | 18 |
| 28 | 8 | 25 | 23 | 540 | 27 | 16 | 1072 | 29 | 9 |
| 9 | 9 | 7 | 2 | 541 | 8 | 19 | 1073 | 10 | 12 |
| 20 | 10 | 17 | 17 | 542 | 19 | 10 | 1074 | 21 | 3 |
| 1 | 11 | 28 | 8 | 543 | 0 | 12 | 1075 | 2 | 5 |
| 12 | 12 | 10 | 11 | 544 | 12 | 4 | 1076 | 13 | 21 |
| 23 | 13 | 21 | 2 | 545 | 22 | 19 | 1077 | 24 | 12 |
| 4 | 14 | 2 | 4 | 546 | 3 | 21 | 1078 | 5 | 14 |
| 15 | 15 | 12 | 20 | 547 | 14 | 12 | 1079 | 16 | 5 |
| 26 | 16 | 24 | 11 | 548 | 26 | 4 | 1080 | 27 | 21 |
| 7 | 17 | 5 | 13 | 549 | 7 | 6 | 1081 | 8 | 23 |
| 18 | 18 | 16 | 4 | 550 | 17 | 21 | 1082 | 19 | 14 |
| 29 | 19 | 26 | 20 | 551 | 28 | 13 | 1083 | 0 | 17 |

¹ A simple and ingenious correction of the epact quantities employed in the calendar was proposed by Lullius, and adopted at the reformation of the calendar; it consisted of increasing the epact 1 day in 16 lunar cycles, or 304 years, or changing the epact series 11, 22, 3, etc., to 12, 23, 4, etc.

The lunar character of the Jewish Calendar is shown in the following table of the twelve months which constituted its year 5604, corresponding to Sept., 1843–Aug., 1844. The true new moons are from our Tables; and it will be noticed that the Jewish months fall a little later, and that they fairly agree with the dates of lunar phasis.

CALENDAR OF JEWISH YEAR 5604.

| No. of Month. | True New Moons—Tables. | | | Jewish Months. | |
|---------------|------------------------|----|-------|----------------|--------------|
| | A.D. 1843. | | | | |
| | | d. | h. m. | | |
| I. | Sept. | 24 | 0 58 | Sept. 25 | 1st of Tisri |
| II. | Oct. | 23 | 9 53 | Oct. 25 | „ Hesvan |
| III. | Nov. | 21 | 19 54 | Nov. 24 | „ Kislev |
| IV. | Dec. | 21 | 7 21 | Dec. 24 | „ Tebet |
| | A.D. 1844. | | | | |
| V. | Jan. | 19 | 20 21 | Jan. 22 | „ Sebat |
| VI. | Feb. | 18 | 10 50 | Feb. 21 | „ Adar |
| VII. | Mar. | 19 | 2 30 | Mar. 21 | „ Nisan |
| VIII. | April | 17 | 18 53 | April 19 | „ Yiar |
| IX. | May | 17 | 11 10 | May 19 | „ Sivan |
| X. | June | 16 | 2 35 | June 18 | „ Tamuz |
| XI. | July | 15 | 16 30 | July 17 | „ Ab |
| XII. | Aug. | 14 | 4 45 | Aug. 16 | „ Elul |

SOLAR AND LUNAR CYCLES.

3. Having shown the use of the *Tables* in the verification of particular dates, and of series of dates, it remains to exhibit their use in tracing lunar and solar cycles.

The 49-years' Jubilee cycle, employed in early times by the Jews, has an error which accumulates to 1 month in 22 Jubilees, or 1078 years. In the following table the accumulation of the error can be seen at a glance, and its correction in the 1078 years' cycle.

2300-YEARS' CYCLE.

CORRECTING THE ERROR OF THE 19-YEARS' METONIC CYCLE.

JERUSALEM CIVIL TIME, O.S.

| No. | Years. | B.C. | Vernal Equinox. | | Mean New Moon. | |
|-----|--------|------|-----------------|-------|----------------|-------|
| | | | d. | h. | d. | h. |
| | | 457 | Mar. | 26 10 | Mar. | 25 12 |
| 1 | 209 | 248 | " | 25 1 | " | 25 2 |
| 2 | 418 | 89 | " | 23 16 | " | 24 16 |
| | | A.D. | | | | |
| 3 | 627 | 171 | " | 22 7 | " | 24 5 |
| 4 | 836 | 380 | " | 19 22 | " | 22 19 |
| 5 | 1045 | 589 | " | 18 13 | " | 22 9 |
| 6 | 1254 | 798 | " | 17 5 | " | 21 23 |
| 7 | 1463 | 1007 | " | 15 20 | " | 21 13 |
| 8 | 1672 | 1216 | " | 13 11 | " | 20 3 |
| 9 | 1881 | 1425 | " | 12 2 | " | 19 17 |
| 10 | 2090 | 1634 | " | 10 17 | " | 19 7 |
| 11 | 2299 | 1843 | " | 9 8 | " | 18 21 |
| | | 1844 | " | 8 14 | " | 7 6 |

We terminate our brief examination of cycles connected with the principal calendars by tracing the 42 cycles of the Mohammedan Calendar, which extend from its starting point at the Hejira era, July 16, A.D. 622, to the year 1844. The Mohammedan Calendar is strictly lunar, and is based on a 30-years' cycle of the lunar month and solar day. Thirty lunar years are 360 months, or lunations, each month being reckoned at 29 d. 12 h. 44 m. The fraction 12 h. 44 m., multiplied by 360, amounts to 191 d. 0 h. 0 m. Thus 360 lunations, or 30 lunar years, are 10,631 d. 0 h. 0 m., according to the Mohammedan Calendar, which omits the small remaining fraction of 3 seconds in the length of the lunation.

The first of Moharram in the calendar corresponds with the lunar *phasis*, and is preceded by the actual new moon throughout, as shown in the following table:—

42 LUNAR CYCLES OF THE MOHAMMEDAN CALENDAR.

| No. Cycle. | Lunar Year. | A.D. | New Moon, <i>Tables.</i> Jerusalem Civil Time. | | | First day of Moharram. <i>L'art de verifier les dates.</i> | | |
|---------------|----------------|------|---|-----------|---------|---|------|--|
| | | | <i>d.</i> | <i>h.</i> | | | | |
| 1 | 1 | 622 | July . | 14 | 7 Wed. | July 16 . . | Fri. | |
| 2 | 31 | 651 | Aug. . | 22 | 3 Mon. | Aug. 24 . . | Wed. | |
| 3 | 61 | 680 | Sept. . | 28 | 16 Fri. | Oct. 1 . . | Mon. | |
| 4 | 91 | 709 | Nov. . | 6 | 18 Wed. | Nov. 9 . . | Sat. | |
| 5 | 121 | 738 | Dec. . | 15 | 22 Mon. | Dec. 18 . . | Th. | |
| 6 | 151 | 768 | Jan. . | 24 | 11 Sun. | Jan. 26 . . | Tu. | |
| 7 | 181 | 797 | Mar. . | 3 | 15 Fri. | Mar. 5 . . | Sun. | |
| 8 | 211 | 826 | April. . | 11 | 6 Wed. | April 13 . . | Fri. | |
| 9 | 241 | 855 | May . | 19 | 19 Sun. | May 22 . . | Wed. | |
| 10 | 271 | 884 | June . | 26 | 18 Fri. | June 29 . . | Mon. | |
| 11 | 301 | 913 | Aug. . | 5 | 2 Th. | Aug. 7 . . | Sat. | |
| 12 | 331 | 942 | Sept. . | 13 | 9 Tu. | Sept. 15 . . | Th. | |
| 13 | 361 | 971 | Oct. . | 22 | 6 Sun. | Oct. 24 . . | Tu. | |
| 14 | 391 | 1000 | Nov. . | 28 | 21 Th. | Dec. 1 . . | Sun. | |
| 15 | 421 | 1030 | Jan. . | 6 | 20 Tu. | Jan. 9 . . | Fri. | |
| 16 | 451 | 1059 | Feb. . | 15 | 6 Mon. | Feb. 17 . . | Wed. | |
| 17 | 481 | 1088 | Mar. . | 25 | 16 Sat. | Mar. 27 . . | Mon. | |
| 18 | 511 | 1117 | May . | 3 | 17 Th. | May 5 . . | Sat. | |
| 19 | 541 | 1146 | June . | 11 | 5 Tu. | June 13 . . | Th. | |
| 20 | 571 | 1175 | July . | 19 | 18 Sat. | July 22 . . | Tu. | |
| 21 | 601 | 1204 | Aug. . | 26 | 19 Th. | Aug. 29 . . | Sun. | |
| 22 | 631 | 1233 | Oct. . | 5 | 6 Wed. | Oct. 7 . . | Fri. | |
| 23 | 661 | 1262 | Nov. . | 13 | 14 Mon. | Nov. 15 . . | Wed. | |
| 24 | 691 | 1291 | Dec. . | 22 | 12 Sat. | Dec. 24 . . | Mon. | |
| 25 | 721 | 1321 | Jan. . | 29 | 4 Th. | Jan. 31 . . | Sat. | |
| 26 | 751 | 1350 | Mar. . | 9 | 2 Tu. | Mar. 11 . . | Th. | |
| 27 | 781 | 1379 | April. . | 17 | 10 Sun. | April 19 . . | Tu. | |
| 28 | 811 | 1408 | May . | 25 | 18 Fri. | May 27 . . | Sun. | |
| 29 | 841 | 1437 | July . | 3 | 16 Wed. | July 5 . . | Fri. | |
| 30 | 871 | 1466 | Aug. . | 11 | 4 Mon. | Aug. 13 . . | Wed. | |
| 31 | 901 | 1495 | Sept. . | 18 | 19 Fri. | Sept. 21 . . | Mon. | |
| 32 | 931 | 1524 | Oct. . | 27 | 1 Th. | Oct. 29 . . | Sat. | |
| 33 | 961 | 1553 | Dec. . | 5 | 13 Tu. | Dec. 7 . . | Th. | |
| 34 | 991 | 1583 | Jan. . | 13 | 22 Sun. | { Jan. 15, O.S. | Tu. | |
| 35 | 1021 | 1612 | Feb. . | 21 | 18 Fri. | { 25, N.S. | | |
| 36 | 1051 | 1641 | Mar. . | 31 | 7 Wed. | { Feb. 23 . . | Sun. | |
| 37 | 1081 | 1670 | May . | 9 | 5 Mon. | { Mar. 4 . . | | |
| 38 | 1111 | 1699 | June . | 17 | 11 Sat. | { April 2 . . | Fri. | |
| 39 | 1141 | 1728 | July . | 25 | 18 Th. | { 12 . . | | |
| 40 | 1171 | 1757 | Sept. . | 2 | 16 Tu. | { May 11 . . | Wed. | |
| 41 | 1201 | 1786 | Oct. . | 11 | 5 Sun. | { 21 . . | | |
| 42 | { 1231 | 1815 | Nov. . | 19 | 1 Fri. | { June 19 . . | Mon. | |
| | { 1260 | 1844 | Jan. . | 7 | 20 Fri. | { 29 . . | | |
| | | | | | | { July 27 . . | Sat. | |
| | | | | | | { Aug. 7 . . | | |
| | | | | | | { Sept. 4 . . | Th. | |
| | | | | | | { 15 . . | | |
| | | | | | | { Oct. 13 . . | Tu. | |
| | | | | | | { 24 . . | | |
| | | | | | | { Nov. 21 . . | Sun. | |
| | | | | | | { Dec. 3 . . | | |
| | | | | | | { Jan. 10 . . | Mon. | |
| | | | | | | { " 22 . . | | |

4. The principal use of the *Tables* is the demonstration they afford of the astronomic character and value of the periods 1,260 and 2,300 years, and of their difference 1,040 years; periods shown to be solar and lunar cycles by the Swiss astronomer, De Cheseaux, more than a century ago.

The present volume of *Tables* confirms the remarkable conclusions reached by De Cheseaux, and greatly enlarges the evidence of the accurate and far-reaching adjustment connecting these periods with solar and lunar revolutions. De Cheseaux proved that 1,260 and 2,300 tropical years, and their difference 1,040 years, are cycles of synodic months and solar or equinoctial years, and that the latter is the largest accurate cycle of this order known, besides being a cycle of the solar day and solar year. The present volume of *Tables* proves that 2,300 years has a cyclical connection with solar and lunar *anomaly*, that it is a cycle of the anomalistic month, with the synodic month and solar year, and also measures 40 days of the *annus magnus* of the revolution of the solar perigee with reference to the equinoxes; and that therefore it is possible to deduce from these periods not only the measures of the synodic month and tropical year, but those of the *anomalistic month and anomalistic year*, and that with such correctness as to afford a basis for the computation of astronomic tables of equinoxes, and new and full moons, both mean and true, for any required period.

More than 100,000 solar and lunar dates, extending over 3,555 years, have been calculated from these remarkable cycles, and are tabulated in this volume; namely 101,217 vernal equinoxes, and new and full moons, mean and true, occupying 627 pages of printed matter. The correctness of the *Tables* is amply confirmed by the correspondence of their dates of new and full moons with those of more than 12,000 solar and lunar eclipses in Oppolzer's invaluable *Canon der Finsternisse*.

Finding M. de Cheseaux's work in the British Museum, and having had it carefully transcribed, I submitted the copy to the examination of the late Professor J. C. Adams, of Cambridge, in the year 1878. While verifying De Cheseaux's calculations as to the cyclical character of the periods 1,260, 2,300, and 1,040 years, Professor Adams pointed out that De Cheseaux had erred in supposing "that the excentricity of the earth's orbit was the same in the time of Daniel as in his own time, whereas it was very sensibly greater." De Cheseaux's error on this point, which arose from the imperfection of astronomic knowledge on the subject in his day, certainly vitiated his attempt to derive from these cycles the five elements of the solar theory; in his own words, to deduce "*les cinq elements de la Theorie du Soleil, d'une manière autant et plus exacte, que par les meilleures methodes astronomiques.*" Within the last century, Laplace, Leverrier, Adams, Hansen, Plana, De Pontécoulant, and other astronomers have devoted much attention to the question of the diminution of the excentricity of the earth's orbit, and have not only established the change of excentricity and measured its rate, but have traced out its cause and its effects; that it is "due to the combined action of all the other planets," and is the cause of *the secular acceleration of the moon's mean motion*, a change which is "one of the most curious and instructive in the range" of physical astronomy, "one which leads our speculations farther into the past and future, and points to longer vistas in the dim perspective of changes which our system has undergone, and is yet to undergo, than any other which observation, assisted by theory, has developed."¹ The moon is now "about a degree ahead of where she ought to have been had her motion been uniform from the time of Hipparchus and Ptolemy."² The investigations of Pro-

¹ *Outlines of Astron.*, Sir J. Herschel, art. 740.

² Newcomb, *Astron.*, p. 96.

fessor Adams have shown that the account received by astronomers of the cause of lunar acceleration was incomplete, and explained only half the acceleration. Delaunay, the French mathematical astronomer, traced the remaining effect to "tidal friction" as reducing the rate of the earth's axial revolution.

A consequence of the secular acceleration of the moon's mean motion is that the value of the synodic month, generally accepted by astronomers in the present day, 29*d.* 12*h.* 44*m.* 2·84*s.*, or 29·5305887 days, yields results which *require correction* for distant periods, past or future. It is impossible to assign any period as the exact measure of the synodic month which will hold good for all time. In adopting as the measure of the synodic month, at the base of the present *Tables*, a period slightly larger than the above, derived directly from the 1,040 years' cycle, viz., 29*d.* 12*h.* 44*m.* 3*s.* 6*thirds*, or 29·5305916,¹ we employ a measure which, in the absence of any correction for secular inequalities, *yields better results*² than the best and most accurate measures of the lunation now used by astronomers.

In illustration of this we may point to the dates in the present *Tables* of the mean new moons in the fourth century, when the Christian Calendar now in use took its rise. Calculating the date of the first mean new moon in A.D. 301 (Jerusalem civil time) by the tables in the *Encyclopædia Britannica*, and *correcting for secular inequalities*, we reach results which closely agree with the date of the mean new moon in our *Tables*.

¹ Exceeding 29·5305887 by ·0000029, a fraction of a single second.

² For past dates.

| | <i>d.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> |
|-------------------------------|-----------|-----------|-----------|-----------|
| A.D. 1801. January | 14 | 7 | 39 | 9 |
| — 1500. | 11 | 12 | 25 | 59 |
| | 25 | 20 | 5 | 8 |
| Correction, Long. Jerusalem | + 2 | 21 | 0 | |
| „ Civil Time . . . | + 12 | 0 | 0 | |
| | 26 | 10 | 26 | 8 |
| Correction, Secular Equations | — 1 | 18 | 33 | |
| A.D. 301. January | 26 | 9 | 7 | 35 |

On comparing the result here with our *Tables*, we find a close agreement with our *uncorrected mean new moon* for the same date. The first mean new moon, A.D. 301, in our *Tables* is January 26*d.* 9*h.* 7*m.* The agreement of our mean new moon with the *corrected* mean new moon of the *Encyclopædia Britannica*, proves that the 1,040 years' cycle, from which we derive our measures, is closely adjusted to the chronology of the century distinguished by the institution of the Christian Calendar.¹

In order to show this fact we have calculated by the astronomical tables in the *Encyclopædia Britannica*, 7th edition, the date of the first mean new moon in each century from A.D. 1801 to B.C. 800, *applying in every case the secular corrections*, which run from 0*h.* 0*m.* 0*s.* in 1801, to 3*h.* 52*m.* 5*s.* in B.C. 800. We have then compared the series of dates thus obtained with the mean new moons in our *Tables* for the same period, and find the following differences :—

¹ The date of the Council of Nice was A.D. 325.

FIRST MEAN NEW MOON IN EACH CENTURY.

DIFFERENCES OF THE DATES IN OUR TABLES FROM THOSE CALCULATED FROM
TABLES IN *ENCYCLOPEDIA BRITANNICA*, CORRECTED BY SECULAR EQUATIONS.

| A.D. | Differences. | | | A.D. | Differences. | | |
|------|--------------|-----------|-----------|------|--------------|-----------|-----------|
| | <i>h.</i> | <i>m.</i> | <i>s.</i> | | <i>h.</i> | <i>m.</i> | <i>s.</i> |
| 1801 | —0 | 2 | 0 | 201 | +0 | 4 | 20 |
| 1701 | —0 | 5 | 39 | 101 | +0 | 11 | 35 |
| 1601 | —0 | 9 | 35 | 1 | +0 | 18 | 36 |
| 1501 | —0 | 13 | 48 | B.C. | | | |
| 1401 | —0 | 16 | 19 | 100 | +0 | 26 | 16 |
| 1301 | —0 | 18 | 9 | 200 | +0 | 33 | 35 |
| 1201 | —0 | 19 | 16 | 300 | +0 | 42 | 33 |
| 1101 | —0 | 20 | 41 | 400 | +0 | 51 | 11 |
| 1001 | —0 | 20 | 25 | 500 | +1 | 2 | 27 |
| 901 | —0 | 19 | 28 | 600 | +1 | 12 | 21 |
| 801 | —0 | 17 | 50 | 700 | +1 | 23 | 54 |
| 701 | —0 | 15 | 30 | 800 | +1 | 35 | |
| 601 | —0 | 13 | 30 | | | | |
| 501 | —0 | 10 | 50 | | | | |
| 401 | —0 | 5 | 29 | | | | |
| 301 | —0 | 0 | | | | | |

The adjustment of the measures of the lunation derived from the 1,040 years' cycle to the uses of the Christian Calendar is proved by the fact that *the error resulting from their employment nowhere exceeds 20 minutes*. Employing these measures, and starting with the month of March, A.D. 1844, we reach an error of 2 minutes in 1801; the error grows to 20 minutes in A.D. 1101, and then diminishes to 0*h.* 0*m.* in A.D. 301, increasing again to 18½ minutes in A.D. 1.

In computing the long series of lunar dates contained in our *Tables*, the saving of time and labour by *dispensing with the use of secular equations* has been very great. When employing our *Tables*, those who are desirous of greater accuracy than they afford can apply the needed corrections, but the errors we have indicated may well be considered as

too small to affect injuriously the value of the *Tables* for all ordinary chronological purposes.

On page xvii. the first solar eclipse of each century from B.C. 1100 to A.D. 1900, as stated in Oppolzer's *Canon*, is compared with the corresponding true new moon of our *Tables*. It will be observed that while the mean difference between the two series of new moons is -10 minutes, the *minus* differences prevail in the second half of the series, and the *plus* differences in the first half. This agrees with the result we have just exhibited of employing a measure of the synodic month derived from the 1,040 years' cycle, exceeding by a fraction of a second that used by Oppolzer and other modern astronomers. Though thus slightly exceeding the lunation of the most modern tables, our measure of the synodic month is in fairly close agreement with the lunation of lunar tables of a little older date.

LUNATION.

| | <i>d.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>'''</i> | <i>''''</i> |
|-------------------------|-----------|-----------|-----------|-----------|------------|-------------|
| Ferguson's Tables . . | 29 | 12 | 44 | 3 | 2 | 58 |
| From 1,040 Years' Cycle | 29 | 12 | 44 | 3 | 6 | 57 |

10,000 LUNATIONS.

| | <i>d.</i> | <i>h.</i> | <i>m.</i> | <i>s.</i> | <i>'''</i> |
|-------------------------|-----------|-----------|-----------|-----------|------------|
| Ferguson's Tables . . | 295,305 | 21 | 48 | 15 | 20 |
| From 1,040 Years' Cycle | 295,305 | 21 | 59 | 19 | 8 |

The mean of the lunations used by Cassini, Flamsteed, De la Hire, Bouillaud, Tycho, etc., as shown by De Cheseaux, has no sensible difference from the measure yielded by the 1040 years' cycle.

A word in conclusion as to the labour and care with which the present *Tables* have been computed. The whole of the new moons from B.C. 747 to A.D. 1934, and also of the vernal equinoxes for the same period, have been *twice computed*, and the results carefully compared throughout.

The first calculation of the true new moons was made on Houzeau's method "du calcul rapide des phases lunaires, à l'usage des personnes qui s'occupent d'études historiques," based on the 7,412 days' anomalistic cycle, containing 251 synodic and 269 anomalistic months. This extensive table was calculated for me under the supervision of E. Walter Maunder, Esq., F.R.A.S., Secretary of the Royal Astronomical Society. Though valuable as a first draft, and as a means of checking the correctness of later work, the table, owing to its method of calculation, was less accurate than that presented in this volume; it was also less extensive, as commencing with B.C. 747 (date of the Nabonassar Era), whereas the present *Tables* ascend 875 years further to the probable date of the Exodus, B.C. 1622.

In the preparation of the present *Tables* I have had the assistance of a very careful computer, Mr. Thomas Wright, of the Nautical Almanac Office, who has also corrected the proofs as the work passed through the press. As an indication of the general accuracy of the work I may refer to the test of the mean new moons of the tables afforded by the 1040 years' cycle. Applied at any point the lunar cycle of 1,040 years shows a correspondence of the mean new moons at its commencement and close. The anticipation of the Julian equinox in 1,040 years is just 8 days; allowing for this, it will be found that the new moons correspond with remarkable accuracy.

CORRESPONDENCE OF MEAN NEW MOONS IN THE 1040 YEARS' LUNAR CYCLE.

| A.D. | | | | | A.D. | | | | |
|------|-------|----|----|----|------|-------|----|----|----|
| | | d. | h. | m. | | | d. | h. | m. |
| 826 | Mar. | 20 | 9 | 27 | 1866 | Mar. | 12 | 9 | 27 |
| | April | 18 | 22 | 11 | | April | 10 | 22 | 11 |
| | May. | 18 | 10 | 55 | | May. | 10 | 10 | 55 |
| | June | 16 | 23 | 39 | | June | 8 | 23 | 39 |
| | July. | 16 | 12 | 23 | | July | 8 | 12 | 23 |
| | Aug. | 15 | 1 | 7 | | Aug. | 7 | 1 | 7 |
| | Sept. | 18 | 13 | 51 | | Sept. | 5 | 13 | 51 |
| | Oct. | 18 | 2 | 35 | | Oct. | 5 | 2 | 35 |
| | Nov. | 11 | 15 | 19 | | Nov. | 3 | 15 | 19 |
| | Dec. | 11 | 4 | 8 | | Dec. | 3 | 4 | 8 |

| B.C. | Mean New Moon. | | | Difference. | | | |
|------|----------------|----|----|-------------|----|----|---|
| | d. | h. | m. | d. | h. | m. | |
| 1622 | April . . | 5 | 5 | 12 | 8 | 0 | 0 |
| 582 | March . . | 28 | 5 | 12 | | | |
| 1046 | Sept. . . | 21 | 8 | 2 | 8 | 0 | 0 |
| 6 | Sept. . . | 13 | 8 | 2 | | | |
| 1012 | March . . | 12 | 0 | 0 | 8 | 0 | 0 |
| A.D. | | | | | | | |
| 29 | March . . | 4 | 0 | 0 | | | |
| B.C. | | | | | | | |
| 82 | Jan. . . | 20 | 8 | 1 | 8 | 0 | 0 |
| A.D. | | | | | | | |
| 959 | Jan. . . | 12 | 8 | 1 | | | |
| 29 | March . . | 4 | 0 | 0 | 8 | 0 | 0 |
| 1069 | Feb. . . | 24 | 0 | 0 | | | |
| 622 | July . . | 14 | 0 | 17 | 8 | 0 | 0 |
| 1662 | July . . | 6 | 0 | 17 | | | |
| 894 | Oct. . . | 3 | 12 | 10 | 8 | 0 | 0 |
| 1934 | Sept. . . | 25 | 12 | 19 | | | |

We will close this Introduction by citing the testimony of one or two competent witnesses as to the intimate connection of Natural and Revealed Chronology.

In the chapter on Chronological Astronomy, contained in the fourth edition of his *Handbook of Astronomy*, George F. Chambers, F.R.A.S., after giving an account of De Cheseaux's discoveries brought under public notice in my works, and also of some of my investigations in the same direction, adds the following reflections: "Such are some of the adjustments which astronomy discloses between the prophetic times and the periods which affect the material universe. They are adjustments of such a character as only modern science, with its instruments of exact precision, could discover, and were of necessity unknown to the prophets of bygone ages. The periods which the prophets foretold as destined to measure cycles of moral harmonization are themselves cycles of material harmonization. There is a mutual adjustment between the material and moral worlds. The course of revealed Redemption chronology, Levitical and Prophetic, is in profound and exact agreement in all its details and all its extent with the Time Order of the Universe."¹

We will conclude with a sentence from De Cheseaux's treatise on the astronomical character of the prophetic times in the Book of Daniel. "For many ages the Book of Daniel, and especially these passages of it, have been quoted and commented on by numerous and varied authors, so that it is impossible for a moment to call in question their antiquity. Who can have taught their author the marvellous relation of the periods he selected with soli-lunar revolutions? Is it possible, considering all these points, to fail to recognise in the Author of the Book of Daniel, the Creator of the heavens and all their hosts, of the earth and the things that are therein?"

¹ Vol. II., p. 467.

SUPPLEMENTARY NOTES BY MR. MARTH ON THE EQUINOX DATES, AND LENGTH OF THE EQUINOCTIAL YEAR.

THE Vernal Equinoxes in this volume are all *mean* Vernal Equinoxes. A Table has been computed by Mr. Marth, which we append, to exhibit the correction they require for the times (approximately stated) of the *true* Vernal Equinoxes.

“What is the real time of the Equinox? It is the time when the plane of the Earth’s equator apparently passes through the Sun’s centre, or when the geocentric declination of the Sun is 0° . About the time of the Equinox the hourly rate of change of declination is about $1'$, or in one minute of time the declination changes about $1''$. The determination of the time of the Equinox is accordingly a rather complicated problem, and Bradley’s observations in the middle of the last century are really the first which nowadays can be used, the remaining errors at the Vernal Equinox being fortunately counteracted by those of the Autumnal Equinox. The differences of the times of successive Equinoxes vary considerably, as may be easily found by comparing the times given in the *Nautical Almanac* up to 1875, since later on the times are only given to the nearest hour. Yet the length of the sidereal solar year does not change, and that of the tropical year only changes on account of the precession changing. For the solar year is determined by the Sun’s *mean* longitudes reckoned from the mean Equinox, and these are deduced from the observed longitudes by taking all the perturbations, and especially the eccentricity, of the earth’s orbit duly into account. If all the smaller perturbations are neglected, and only the eccentricity and the shifting of the perigee are taken into account, the times between successive Vernal and Autumnal Equinoxes and the length of the tropical year may be found in the following

computation deduced from Le Verrier's Tables, which are certainly the most trustworthy at present, though they may be supplanted before long by Newcomb's new ones, which will take into account the observations of the last forty years. By looking over the differences of the Equinoxes, it is seen that for the Vernal Equinoxes the differences increase, as they have done since B.C. 3000, when they were at a minimum $48^m 20^s.8$; while the differences of the Autumnal Equinoxes decrease rather faster than the length of the tropical year."

LENGTH OF THE TROPICAL YEAR AT DIFFERENT
DATES, COMPUTED FROM LEVERRIER'S TABLES."

| | Length of Tropical Year. | | | | Vernal Equinoxes. | | | Autumnal Equinoxes. | | |
|-----------|--------------------------|----|----|-------|-------------------|----|------|---------------------|----|------|
| | d. | h. | m. | s. | h. | m. | s. | h. | m. | s. |
| B.C. 1608 | 365 | 5 | 49 | 4.69 | 5 | 48 | 27.4 | 5 | 49 | 42.8 |
| 1498 | | | | 4.07 | | | 28.0 | | | 40.2 |
| 1378 | | | | 3.45 | | | 28.6 | | | 38.0 |
| 1268 | | | | 2.83 | | | 29.4 | | | 35.8 |
| 1148 | | | | 2.21 | | | 30.2 | | | 33.6 |
| 1038 | | | | 1.59 | | | 31.1 | | | 31.5 |
| 918 | | | | 0.97 | | | 32.1 | | | 29.4 |
| 808 | | | 49 | 0.35 | | | 33.2 | | | 27.4 |
| 688 | | | 48 | 59.73 | | | 34.5 | | | 25.4 |
| 578 | | | | 59.11 | | | 35.7 | | | 23.8 |
| 458 | | | | 58.49 | | | 37.0 | | | 21.3 |
| 348 | | | | 57.86 | | | 38.3 | | | 19.1 |
| 228 | | | | 57.24 | | | 39.5 | | | 16.9 |
| B.C. 118 | | | | 56.68 | | | 40.6 | | | 14.6 |
| A.D. 8 | 365 | 5 | 48 | 56.00 | 5 | 48 | 41.8 | 5 | 49 | 12.2 |
| 118 | | | | 55.88 | | | 42.8 | | | 9.7 |
| 238 | | | | 54.76 | | | 43.8 | | | 7.1 |
| 348 | | | | 54.14 | | | 44.8 | | | 4.5 |
| 468 | | | | 53.52 | | | 45.8 | 49 | | 1.9 |
| 578 | | | | 52.90 | | | 46.8 | 48 | | 59.4 |
| 698 | | | | 52.28 | | | 47.9 | | | 56.9 |
| 808 | | | | 51.66 | | | 49.1 | | | 54.5 |
| 928 | | | | 51.04 | | | 50.5 | | | 52.3 |
| 1038 | | | | 50.42 | | | 51.8 | | | 50.0 |
| 1158 | | | | 49.80 | | | 53.1 | | | 47.8 |
| 1268 | | | | 49.18 | | | 54.5 | | | 45.4 |
| 1388 | | | | 48.56 | | | 55.8 | | | 43.2 |
| 1498 | | | | 47.94 | | | 57.0 | | | 41.0 |
| 1618 | | | | 47.32 | | | 58.2 | | | 38.8 |
| 1728 | | | | 46.70 | | | 59.2 | | | 36.4 |
| 1848 | | | | 46.08 | 49 | | 0.2 | | | 33.9 |
| 1958 | | | | 45.46 | | | 1.0 | | | 31.4 |
| 2078 | 365 | 5 | 48 | 44.84 | 5 | 49 | 1.9 | 5 | 48 | 28.9 |

VERNAL EQUINOX DIFFERENCES.

The differences of the times are rather variable, as a comparison of the times given in the *Nautical Almanac* shows.

| Vernal Equinoxes. | | | | | | | Differences. | |
|-------------------|---|---|-------|----|----|----|--------------|-----|
| d. h. m. | | | | | | | | |
| 1836 | . | . | March | 20 | 1 | 39 | Greenwich. | m. |
| 1840 | . | . | " | " | 0 | 41 | . | 58 |
| 1844 | . | . | " | 19 | 28 | 55 | . | 46 |
| 1848 | . | . | " | " | 28 | 19 | . | 194 |
| 1852 | . | . | " | " | 22 | 42 | . | -37 |
| 1856 | . | . | " | " | 21 | 49 | . | -54 |
| 1860 | . | . | " | " | 21 | 5 | . | 44 |
| 1864 | . | . | " | " | 20 | 10 | . | -55 |
| 1868 | . | . | " | " | 19 | 48 | . | -27 |
| 1872 | . | . | " | " | 18 | 57 | . | -46 |

If one is content to get the times within some twenty minutes, so that the places of the moon and planets need not be taken into consideration, the computation becomes simple, and requires merely proper interpolation, as the data can be taken from R. Schram's "*Hilfstafeln für Chronologie*," in vol. xlv. of the *Denkschriften* of the Vienna Academy. In the following computation I give the list of the days when the sun enters Aries from Schram's Tables, after having converted the days of the Julian period into those of the ordinary Julian Calendar. The intervals of 42,002.8 days are those of 115 years, so that the correction is best effected by interpolating for intervals of twenty-three years, or for five sub-intervals, taking the second differences duly into account, and then interpolating for the single years. The comparison of the resulting times with those of the Tables shows the correction required by the latter in the last column.

TABLE OF CORRECTIONS OF THE MEAN VERNAL
EQUINOXES OF THIS VOLUME FOR DATES OF
TRUE VERNAL EQUINOXES.

R. Schram, "Hilfstafeln für Chronologie." P. 10.

The dates in the first column are reduced from days of the Julian Period to the dates of the Julian calendar, and '6153 is added ('59791 = 14 h. 21 m. for the reduction from Greenwich astronomical time to Jerusalem Civil Time, and '01788 for the added constants).

| | Vernal Equinox. Jerusalem Civil Time. Old Style. | Schram. | Tables. | Correction. |
|-----------|--|--------------|----------|-------------|
| B.C. | | d. h. m. | d. h. m. | h. m. |
| 1608 | Apr. 4-8978 42002-8285 | Apr. 4 21 33 | 14 56 | +6 37 |
| 1498 | " 3-7263 8 -8293 | " 3 17 26 | 11 30 | 5 56 |
| 1378 | " 3-5556 9 -8302 | " 3 13 20 | 8 6 | 5 14 |
| 1263 | " 2-3858 11 -8313 | " 2 9 16 | 4 41 | 4 35 |
| 1148 | " 1-2171 10 -8323 | " 1 5 13 | 1 16 | 3 57 |
| 1033 | Mar. 31-0494 14 -8337 | Mar. 31 1 11 | 30 21 51 | 3 20 |
| 918 | " 30-8381 14 -8351 | " 30 21 12 | 18 26 | 2 46 |
| 803 | " 29-7182 16 -8367 | " 29 17 14 | 15 1 | 2 13 |
| 688 | " 28-5549 17 -8384 | " 28 13 19 | 11 36 | 1 43 |
| 573 | " 27-3933 17 -8401 | " 27 9 26 | 8 11 | 1 15 |
| 458 | " 27-2334 17 -8418 | " 27 5 36 | 4 46 | 0 50 |
| 343 | " 26-0752 17 -8435 | " 26 1 48 | 1 21 | 0 27 |
| 228 | " 24-9187 15 -8450 | " 24 22 3 | 21 57 | +0 6 |
| 113 | " 23-7637 15 42002-8465 | " 23 18 20 | 18 31 | -0 11 |
| A.D. 3 | " 23-6102 15 -8460 | " 23 14 39 | 15 7 | 0 28 |
| 118 | " 22-4582 12 -8492 | " 22 11 0 | 11 42 | 0 42 |
| 233 | " 21-3074 14 -8506 | " 21 7 23 | 8 17 | 0 54 |
| 348 | " 20-1580 13 -8519 | " 20 3 48 | 4 52 | 1 4 |
| 463 | " 20-0099 13 -8532 | " 20 0 14 | 1 27 | 1 13 |
| 578 | " 18-8631 15 -8547 | " 18 20 48 | 22 2 | -1 19 |

| | Vernal Equinox. Jerusalem Civil Time. Old Style. | Schram. | Tables. | Correction |
|------|--|---------------|---------|------------|
| B.C. | | d. h. m. | h. m. | h. m. |
| 698 | Mar. 17-7178 15 8562 | Mar. 17 17 14 | 18 37 | -1 23 |
| 808 | " 16-5740 17 8579 | " 16 13 47 | 15 12 | 1 25 |
| 928 | " 16-4819 18 8597 | " 16 10 22 | 11 47 | 1 25 |
| 1038 | " 15-2916 17 8614 | " 15 7 0 | 8 22 | 1 22 |
| 1153 | " 14-1530 19 8633 | " 14 3 40 | 4 57 | 1 17 |
| 1268 | " 13-0163 17 8650 | " 13 0 23 | 1 32 | 1 9 |
| 1388 | " 12-8813 18 8668 | " 12 21 9 | 22 7 | 0 58 |
| 1498 | " 11-7481 16 8684 | " 11 17 57 | 18 42 | 0 45 |
| 1613 | " 10-6165 14 8698 | " 10 14 48 | 15 17 | 0 27 |
| 1728 | " 9-4863 14 8712 | " 9 11 40 | 11 53 | -0 13 |
| 1843 | " 9-3575 11 42002-8723 | " 9 8 35 | 8 27 | +0 8 |
| 1958 | " 8-2298 | | | |

DATES OF EQUINOXES AND SOLSTICES, B.C. 552.

"I have computed the times of the Equinoxes and Solstices for the year B.C. 552, and find they agree with those of Schram. When were Professor Adams' computations made? or what Tables did he employ? By Schram's Tables, taking into account the six smaller terms, I find—

| | | d. | h. | m. | |
|------|------------------|-------|----|----|--------------------------|
| B.C. | Vernal Equinox | March | 27 | 11 | 31 Jerusalem Civil Time. |
| | Summer Solstice | June | 29 | 15 | 6 |
| | Autumnal Equinox | Sept. | 29 | 15 | 33 |
| | Winter Solstice | Dec. | 27 | 4 | 0 |

NOTES ON PROFESSOR ADAMS' COMPUTATION.

The examination of De Cheseaux' calculations by Professor Adams as to the dates of the Equinoxes and Solstices B.C. 552, was made for the author of the present work in 1873. In a

letter published at the time in the introduction to *The Approaching End of the Age*, Professor Adams says:—

“I have calculated very approximately the times of the Equinoxes and Solstices for the year B.C. 552, which is that given by De Cheseaux as the year of Daniel’s vision, and I find the following results expressed in mean time at Jerusalem, reckoned from midnight.

| | | <i>d.</i> | <i>h.</i> | <i>m.</i> |
|------------------|-------------|-----------|-----------|-----------|
| Vernal Equinox | . . . March | 27 | 8 | 2 |
| Summer Solstice | . . . June | 29 | 11 | 39 |
| Autumnal Equinox | . . . Sept. | 29 | 11 | 51 |
| Winter Solstice | . . . Dec. | 27 | 0 | 17 |

Professor Adams did not mention what Tables he employed. On the variance of the two computations, Mr. Marth writes, “A difference of $3\frac{1}{2}$ or $3\frac{3}{4}$ hours seems due to some error which may indeed occur in sporadic computations if one does not check them in several ways. I have tried to find the cause of the discrepancy, but have not succeeded in hitting upon a plausible conjecture which might serve as an explanation.”

MEAN AND TRUE LONGITUDE OF THE SUN AT THE NABONASSAR ERA, COMPUTED BY MR. MARTH.

“I have computed from Leverrier’s Solar Tables the place of the Sun for—746, February 26th (B.C. 747), and find,—

| | |
|----------------------------|----------------------|
| | Alexandria, noon. |
| Mean Longitude | 327° 58' 31.7" |
| Equation of Centre | +2° 2' 42.0" |
| True Longitude | <u>330° 1' 13.7"</u> |

“The equation of the centre is near its maximum, the perigee being in $236^{\circ} 12.5'$, and the eccentricity was at that time greater than at present.

“A. MARTH.”

TABLE
OF
VERNAL EQUINOXES AND NEW MOONS
IN
“*OLD STYLE*”

FROM B.C. 1622 TO A.D. 1934.

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------------------|----------------------|----------------------|---|----------------------|----------------------|----------------------|
| B.C. 1622. G. April. <i>d. h. m.</i> 5 5 32 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1619. C. April. <i>d. h. m.</i> 4 22 58 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| JAN. . | ... | ... | ... | JAN. . | 3 6 9 | 3 10 26 | |
| FEB. . | ... | ... | ... | FEB. . | 1 18 53 | 2 4 33 | |
| MAR. . | ... | ... | ... | MAR. . | 3 7 38 | 3 20 20 | |
| APRIL | 5 5 12 | 5 3 38 | | APRIL | 1 20 22 | 2 9 10 | |
| MAY . | 4 17 56 | 4 11 17 | | MAY . | { 1 9 6 30 21 50 | 1 19 17 31 3 28 | |
| JUNE . | 3 6 40 | 2 20 2 | | JUNE . | 29 10 34 | 29 10 46 | |
| JULY . | 2 19 24 | { 2 6 52 31 20 26 | | JULY . | 28 23 18 | 28 18 16 | |
| AUG. . | { 1 8 8 30 20 52 | 30 12 45 | | AUG. . | 27 12 2 | 27 2 55 | |
| SEPT. . | 29 9 36 | 29 7 4 | | SEPT. . | 26 0 46 | 25 13 25 | |
| OCT. . | 28 22 20 | 29 2 4 | | OCT. . | 25 13 30 | 25 2 11 | |
| NOV. . | 27 11 4 | 27 20 14 | | NOV. . | 24 2 14 | 23 17 19 | |
| DEC. . | 26 23 48 | 27 12 19 | | DEC. . | 23 14 58 | 23 10 18 | |
| 1621. F.E. | | | | 1618. B. | | | |
| JAN. . | 25 12 32 | 26 1 39 | | JAN. . | 22 3 42 | 22 4 16 | |
| FEB. . | 24 1 16 | 24 12 16 | | FEB. . | 20 16 26 | 20 22 2 | |
| MAR. . | 24 14 1 | 24 20 43 | | MAR. . | 22 5 11 | 22 14 24 | |
| APRIL | 23 2 45 | 23 3 46 | | APRIL | 20 17 55 | 21 4 36 | |
| MAY . | 22 15 29 | 22 10 34 | | MAY . | 20 6 39 | 20 16 23 | |
| JUNE . | 21 4 13 | 20 18 9 | | JUNE . | 18 19 23 | 19 2 11 | |
| JULY . | 20 16 57 | 20 3 39 | | JULY . | 18 8 7 | 18 10 52 | |
| AUG. . | 19 5 41 | 18 15 54 | | AUG. . | 16 20 51 | 16 19 22 | |
| SEPT. . | 17 18 25 | 17 7 15 | | SEPT. . | 15 9 35 | 15 4 31 | |
| OCT. . | 17 7 9 | 17 1 16 | | OCT. . | 14 22 19 | 14 14 50 | |
| NOV. . | 15 19 53 | 15 20 44 | | NOV. . | 13 11 3 | 13 2 35 | |
| DEC. . | 15 8 37 | 15 16 1 | | DEC. . | 12 23 47 | 12 15 54 | |
| 1620. D. | | | | 1617. A.G. | | | |
| JAN. . | 13 21 21 | 14 9 28 | | JAN. . | 11 12 31 | 11 6 33 | |
| FEB. . | 12 10 5 | 13 0 7 | | FEB. . | 10 1 15 | 9 22 25 | |
| MAR. . | 13 22 49 | 14 11 39 | | MAR. . | 10 13 59 | 10 14 47 | |
| APRIL | 12 11 33 | 12 20 36 | | APRIL | 9 2 43 | 9 6 57 | |
| MAY . | 12 0 17 | 12 3 51 | | MAY . | 8 15 27 | 8 22 5 | |
| JUNE . | 10 13 1 | 10 10 31 | | JUNE . | 7 4 11 | 7 11 41 | |
| JULY . | 10 1 45 | 9 17 43 | | JULY . | 6 16 55 | 6 23 39 | |
| AUG. . | 8 14 29 | 8 2 27 | | AUG. . | 5 5 39 | 5 10 22 | |
| SEPT. . | 7 3 13 | 6 13 36 | | SEPT. . | 3 18 23 | 3 20 31 | |
| OCT. . | 6 15 57 | 6 3 40 | | OCT. . | 3 7 7 | 3 6 39 | |
| NOV. . | 5 4 41 | 4 20 28 | | NOV. . | 1 19 51 | 1 17 13 | |
| DEC. . | 4 17 25 | 4 15 13 | | DEC. . | { 1 8 35 30 21 19 | 1 4 18 30 15 53 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---|--|--|---|---|---|---|
| B.C. 1616. F. April. d. h. m. 4 16 25 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. 29 10 3 27 22 48 29 11 32 28 0 16 27 13 0 26 1 44 25 14 28 24 3 12 22 15 56 22 4 40 20 17 24 20 6 8 | d. h. m. 29 4 19 27 17 35 29 7 50 27 22 53 27 14 17 26 5 22 25 19 37 24 8 51 22 21 10 22 8 48 20 19 58 20 6 41 | B.C. 1613. C.B. April. d. h. m. 4 9 51 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. 27 1 13 25 13 57 26 2 42 24 15 26 24 4 10 22 16 54 22 5 38 20 18 22 19 7 6 18 19 50 17 8 34 16 21 18 | d. h. m. 27 10 47 25 19 55 26 3 45 24 11 6 23 19 3 22 4 41 21 16 51 20 7 55 19 1 31 18 20 31 17 15 25 17 8 48 |
| 1615. E. 4 22 14 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 18 18 52 17 7 36 18 20 21 17 9 5 16 21 49 15 10 33 14 23 17 13 12 1 12 0 45 11 13 29 10 2 13 9 14 57 | 18 17 4 17 3 22 18 14 8 17 1 58 16 15 17 15 6 8 14 22 1 13 14 13 12 6 0 11 20 47 10 10 17 9 22 22 | 1612. A. 4 15 40 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 15 10 2 13 22 46 15 11 30 14 0 14 13 12 58 12 1 42 11 14 26 10 3 10 8 15 54 8 4 38 6 17 22 6 6 6 | 15 23 28 14 11 18 15 20 36 14 4 7 13 10 52 11 17 53 11 2 20 9 13 9 8 3 3 7 19 54 6 14 52 6 10 28 |
| 1614. D. 5 4 3 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 8 3 41 6 16 25 8 5 9 6 17 53 6 6 37 4 19 21 4 8 5 2 20 49 { 1 9 33 30 22 17 30 11 1 28 23 45 28 12 29 | 8 9 4 6 18 34 8 3 20 6 12 3 5 21 41 4 9 1 3 22 40 2 14 31 1 7 54 { 1 1 47 30 18 55 29 10 25 28 23 44 | 1611. G. 4 21 29 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 4 18 50 3 7 34 4 20 19 3 9 3 2 21 47 { 1 10 31 30 23 15 30 11 59 29 0 43 27 13 27 27 2 11 25 14 55 25 3 39 | 5 4 59 3 21 3 5 10 4 3 20 8 3 4 5 1 10 55 30 17 48 30 1 44 28 11 42 27 0 21 26 15 51 25 9 43 25 4 46 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1610. F. April. <i>d. h. m.</i> 5 3 18 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1607. B. April. <i>d. h. m.</i> 4 20 44 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 16 23 | 23 23 28 | | JAN. . | 20 7 33 | 20 2 11 |
| | FEB. . | 22 5 17 | 22 16 25 | | FEB. . | 18 20 17 | 18 14 39 |
| | MAR. . | 23 17 52 | 24 6 43 | | MAR. . | 20 9 2 | 20 4 8 |
| | APRIL | 22 6 36 | 22 18 6 | | APRIL | 18 21 46 | 18 18 35 |
| | MAY . | 21 19 20 | 22 3 11 | | MAY . | 18 10 30 | 18 9 48 |
| | JUNE . | 20 8 4 | 20 10 54 | | JUNE . | 16 23 14 | 17 1 10 |
| | JULY . | 19 20 48 | 19 18 20 | | JULY . | 16 11 58 | 16 16 6 |
| | AUG. . | 18 9 32 | 18 2 28 | | AUG. . | 15 0 42 | 15 6 9 |
| | SEPT. . | 16 22 16 | 16 12 6 | | SEPT. . | 13 13 26 | 13 19 11 |
| | OCT. . | 16 11 0 | 15 23 47 | | OCT. . | 13 2 10 | 13 7 23 |
| | NOV. . | 14 23 44 | 14 13 43 | | NOV. . | 11 14 54 | 11 18 53 |
| | DEC. . | 14 12 23 | 14 5 42 | | DEC. . | 11 3 38 | 11 5 51 |
| 1609. E.D. 4 9 7 | JAN. . | 13 1 12 | 12 23 6 | 1606. A. 5 2 33 | JAN. . | 9 16 22 | 9 16 15 |
| | FEB. . | 11 13 56 | 11 16 53 | | FEB. . | 8 5 6 | 8 2 18 |
| | MAR. . | 12 2 40 | 12 9 56 | | MAR. . | 9 17 50 | 9 12 28 |
| | APRIL | 10 15 24 | 11 1 12 | | APRIL | 8 6 34 | 7 23 25 |
| | MAY . | 10 4 8 | 10 14 12 | | MAY . | 7 19 18 | 7 11 46 |
| | JUNE . | 8 16 52 | 9 1 2 | | JUNE . | 6 8 2 | 6 1 47 |
| | JULY . | 8 5 36 | 8 10 21 | | JULY . | 5 20 46 | 5 17 17 |
| | AUG. . | 6 18 20 | 6 19 3 | | AUG. . | 4 9 30 | 4 9 37 |
| | SEPT. . | 5 7 4 | 5 4 0 | | SEPT. . | 2 22 14 | 3 1 59 |
| | OCT. . | 4 19 48 | 4 13 50 | | OCT. . | 2 10 58 31 23 42 | 2 17 37 |
| | NOV. . | 3 8 32 | 3 0 56 | | NOV. . | 30 12 26 | 1 8 0 30 20 54 |
| | DEC. . | 2 21 16 | 2 13 23 | | DEC. . | 30 1 10 | 30 8 15 |
| 1608. C. 4 14 56 | JAN. . | 1 10 0 30 22 44 | 1 3 12 30 18 14 | 1605. G.F. 4 8 22 | JAN. . | 28 13 54 | 28 13 10 |
| | FEB. . | ... | ... | | FEB. . | 27 2 38 | 27 3 1 |
| | MAR. . | 1 11 29 31 0 13 | 1 10 9 31 2 18 | | MAR. . | 27 15 23 | 27 11 27 |
| | APRIL | 29 12 57 | 29 17 57 | | APRIL | 26 4 27 | 25 20 17 |
| | MAY . | 29 1 41 | 29 8 21 | | MAY . | 25 16 51 | 25 6 32 |
| | JUNE . | 27 14 25 | 27 21 21 | | JUNE . | 24 5 35 | 23 18 56 |
| | JULY . | 27 8 9 | 27 8 53 | | JULY . | 23 18 19 | 23 9 48 |
| | AUG. . | 25 15 53 | 25 19 30 | | AUG. . | 22 7 3 | 22 2 42 |
| | SEPT. . | 24 4 37 | 24 5 50 | | SEPT. . | 20 19 47 | 20 20 41 |
| | OCT. . | 23 17 21 | 23 16 20 | | OCT. . | 20 8 31 | 20 14 32 |
| | NOV. . | 22 6 5 | 22 3 11 | | NOV. . | 18 21 15 | 19 7 8 |
| | DEC. . | 21 18 49 | 21 14 26 | | DEC. . | 18 9 59 | 18 21 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1604. E. April. <i>d. h. m.</i> 4 14 11 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1601. B.A. April. <i>d. h. m.</i> 4 7 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 22 43 | 17 9 46 | | JAN. . | 14 13 54 | 14 18 6 |
| | FEB. . | 15 11 27 | 15 19 40 | | FEB. . | 13 2 38 | 13 11 57 |
| | MAR. . | 17 0 12 | 17 3 53 | | MAR. . | 13 15 22 | 14 3 31 |
| | APRIL | 15 12 56 | 15 11 12 | | APRIL | 12 4 6 | 12 16 18 |
| | MAY . | 15 1 40 | 14 18 36 | | MAY . | 11 16 50 | 12 2 29 |
| | JUNE . | 13 14 24 | 13 3 12 | | JUNE . | 10 5 34 | 10 10 50 |
| | JULY . | 13 3 8 | 12 14 0 | | JULY . | 9 18 18 | 9 18 23 |
| | AUG. . | 11 15 52 | 11 3 40 | | AUG. . | 8 7 2 | 8 2 13 |
| | SEPT. . | 10 4 36 | 9 20 13 | | SEPT. . | 6 19 46 | 6 11 14 |
| | OCT. . | 9 17 20 | 9 14 49 | | OCT. . | 6 8 30 | 5 21 58 |
| | NOV. . | 8 6 4 | 8 9 45 | | NOV. . | 4 21 14 | 4 19 46 |
| | DEC. . | 7 18 48 | 8 4 26 | | DEC. . | 4 9 58 | 4 1 41 |
| 1603. D. 4 20 0 | JAN. . | 6 7 32 | 6 20 32 | 1600. G. 4 13 26 | JAN. . | 2 22 42 | 2 18 15 |
| | FEB. . | 4 20 16 | 5 9 46 | | FEB. . | 1 11 26 | 1 11 45 |
| | MAR. . | 6 9 0 | 6 20 9 | | MAR. . | 3 0 10 | 3 5 5 |
| | APRIL | 4 21 44 | 5 4 21 | | APRIL | 1 12 54 | 1 21 13 |
| | MAY . | 4 10 28 | 4 11 16 | | MAY . | { 1 1 38 | 1 11 22 |
| | JUNE . | 2 23 12 | 2 17 58 | | | { 30 14 22 | 30 23 20 |
| | JULY . | 2 11 56 | { 2 1 36 | | JUNE . | 29 3 6 | 29 9 30 |
| | | | { 31 11 12 | | JULY . | 28 15 50 | 28 18 30 |
| | AUG. . | { 1 0 40 | | | AUG. . | 27 4 34 | 27 3 34 |
| | | { 30 13 24 | 29 23 36 | | SEPT. . | 25 17 18 | 25 13 6 |
| | SEPT. . | 29 2 8 | 28 15 5 | | OCT. . | 25 6 2 | 24 23 30 |
| | OCT. . | 28 14 52 | 28 9 11 | | NOV. . | 23 18 46 | 23 11 24 |
| | NOV. . | 27 3 36 | 27 4 41 | | DEC. . | 23 7 30 | 23 0 22 |
| | DEC. . | 26 16 20 | 26 23 54 | | | | |
| 1602. C. 5 1 49 | JAN. . | 25 5 4 | 25 17 15 | 1599. F. 4 19 15 | JAN. . | 21 20 14 | 21 14 33 |
| | FEB. . | 23 17 48 | 24 7 44 | | FEB. . | 20 8 58 | 20 5 47 |
| | MAR. . | 25 6 33 | 25 19 10 | | MAR. . | 21 21 43 | 21 21 30 |
| | APRIL | 23 19 17 | 24 4 2 | | APRIL | 20 10 27 | 20 13 31 |
| | MAY . | 23 8 1 | 23 11 17 | | MAY . | 19 23 11 | 20 4 33 |
| | JUNE . | 21 20 45 | 21 18 3 | | JUNE . | 18 11 55 | 18 18 20 |
| | JULY . | 21 9 29 | 21 1 27 | | JULY . | 18 0 39 | 18 6 54 |
| | AUG. . | 19 22 13 | 19 10 25 | | AUG. . | 16 18 23 | 16 18 12 |
| | SEPT. . | 18 10 57 | 17 21 46 | | SEPT. . | 15 2 7 | 15 4 53 |
| | OCT. . | 17 23 41 | 17 11 54 | | OCT. . | 14 14 51 | 14 13 28 |
| | NOV. . | 16 12 25 | 16 4 38 | | NOV. . | 13 3 35 | 13 2 12 |
| | DEC. . | 16 1 9 | 15 23 10 | | DEC. . | 12 16 10 | 12 18 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1598. | JAN. . | 11. 5 3 | 11 0 28 | 1595. | JAN. . | 7.20 13 | 8 8 14 |
| E. | FEB. . | 9 17 47 | 9 12 16 | A. | FEB. . | 6. 8 57 | 6 19 5 |
| April. | MAR. . | 11 6 31 | 11 0 54 | April. | MAR. . | 7 21 41 | 8 3 54 |
| <i>d. h. m.</i> | APRIL | 9 19 15 | 9 14 37 | <i>d. h. m.</i> | APRIL | 6 10 25 | 6 11 23 |
| 5 1 4 | MAY . | 9 7 59 | 9 5 21 | 4 18 30 | MAY . | 5 23. 9 | 5 18 29 |
| | JUNE . | 7.20 43 | 7 20 44 | | JUNE . | 4 11 53 | 4 2 17 |
| | JULY . | 7. 9 27 | 7 12 5 | | JULY . | 4 0 37 | 3 11 51 |
| | AUG. . | 5.22 11 | 6 2 53 | | AUG. . | 2.13 21 | { 2 0 6 |
| | SEPT. . | 4 10 55 | 4 16 44 | | SEPT. . | { 1. 2 5 | { 31 15 20 |
| | OCT. . | 3.23 39 | 4 5 36 | | | { 30.14 49 | 30 9 10 |
| | NOV. . | 2 12 23 | 2 17 33 | | OCT. . | 30. 3 33 | 30 4 25 |
| | DEC. . | { 2 1 7 | 2 4 55 | | NOV. . | 28.16 17 | 28 23 31 |
| | | { 31.13 51 | 31 15 30 | | DEC. . | 28. 5 1 | 28 16 52 |
| 1597. | JAN. . | 30. 2 35 | 30 1 27 | 1594. | JAN. . | 26.17 45 | 27. 7 33 |
| D.C. | FEB. . | 28.15 19 | 28 11 14 | G. | FEB. . | 25. 6 29 | 25 19 12 |
| | MAR. . | 29. 4 4 | 28 21 28 | | MAR. . | 26.19 14 | 27 4 18 |
| 4 6 58 | APRIL | 27 16 48 | 27 8 50 | 5 0 19 | APRIL | 25. 7 58 | 25 11 39 |
| | MAY . | 27. 5 32 | 26 21 51 | | MAY . | 24.20 42 | 24 18 18 |
| | JUNE . | 25.18 16 | 25 12 40 | | JUNE . | 23. 9 26 | 23 1 21 |
| | JULY . | 25. 7 0 | 25 4 50 | | JULY . | 22 22 10 | 22 9 53 |
| | AUG. . | 23.19 44 | 23 21 32 | | AUG. . | 21.10 54 | 20 20 53 |
| | SEPT. . | 22. 8 28 | 22 13 53 | | SEPT. . | 19 23 38 | 19 10 54 |
| | OCT. . | 21.21 12 | 22 5 12 | | OCT. . | 19 12 22 | 19 3 52 |
| | NOV. . | 20. 9 56 | 20 19 2 | | NOV. . | 18. 1 6 | 17 22 51 |
| | DEC. . | 19 22 40 | 20 7 9 | | DEC. . | 17.13 50 | 17 18 23 |
| 1596. | JAN. . | 18 11 24 | 18 17 39 | 1593. | JAN. . | 16. 2 34 | 16 12 47 |
| D. | FEB. . | 17. 0 8 | 17 2 43 | F.E. | FEB. . | 14 15 18 | 15 4 41 |
| | MAR. . | 18 12 53 | 18 11 7 | | MAR. . | 15. 4 3 | 15 17 33 |
| 4 12 41 | APRIL | 17 1 37 | 16 19 25 | 4 6 8 | APRIL | 13 16 47 | 14 8 33 |
| | MAY . | 16 14 21 | 16 4 42 | | MAY . | 13. 5 31 | 13 11 20 |
| | JUNE . | 15. 3 5 | 14 15 53 | | JUNE . | 11 18 15 | 11 18 23 |
| | JULY . | 14 15 49 | 14 5 32 | | JULY . | 11. 6 59 | 11 1 27 |
| | AUG. . | 13. 4 33 | 12 21 35 | | AUG. . | 9 19 43 | 9 9 39 |
| | SEPT. . | 11 17 17 | 11 15 22 | | SEPT. . | 8 8 27 | 7 19 52 |
| | OCT. . | 11 6 1 | 11 9 40 | | OCT. . | 7 21 11 | 7 8 38 |
| | NOV. . | 9 18 45 | 10 3 13 | | NOV. . | 6. 9 55 | 6 0 7 |
| | DEC. . | 9. 7 29 | 9 18 56 | | DEC. . | 5.22 30 | 5 17 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1592. | JAN. . | 4.11 23 | 4 12 32 | 1589. | JAN. . | { 2. 2 33 | 1 23 7 |
| <i>P.</i> | FEB. . | 3. 0 7 | 3 6 56 | <i>A.Q.</i> | FEB. . | { 31 15 17 | 31 10 22 |
| April. | MAR. . | 4.12 51 | 4 23 37 | April | MAR. . | { 1 4 1 | ... |
| <i>d. h. m.</i> | APRIL | 3. 1 35 | 3 13 46 | <i>d. h. m.</i> | APRIL | { 30 16 45 | 30 11 7 |
| 4 11 56 | MAY . | 2.14 19 | 3 1 12 | 4 5 23 | MAY . | 29. 5 20 | 29 1 10 |
| | JUNE . | { 1 3 3 | 1 10 27 | | JUNE . | 28.18 13 | 28 16 14 |
| | | { 30 15 47 | 30 18 24 | | JULY . | 27. 6 57 | 27 7 47 |
| | JULY . | 30. 4 31 | 30 2 11 | | AUG. . | 26 19 41 | 26 23 7 |
| | AUG. . | 28 17 15 | 28 10 41 | | SEPT. . | 25. 8 25 | 25 13 45 |
| | SEPT. . | 27 5 59 | 26 20 37 | | OCT. . | 23.21 9 | 21 3 25 |
| | OCT. . | 26.18 43 | 26 8 25 | | NOV. . | 23. 9 53 | 23 16 6 |
| | NOV. . | 25. 7 27 | 24 22 13 | | DEC. . | 21 22 37 | 22 8 50 |
| | DEC. . | 24.20 11 | 24 13 51 | | | 21 11 21 | 21 14 43 |
| 1591. | JAN. . | 23. 8 55 | 23 6 45 | 1588. | JAN. . | 20. 0 5 | 20 0 47 |
| <i>C.</i> | FEB. . | 21.21 39 | 22 0 3 | <i>F.</i> | FEB. . | 18.12 49 | 18 10 22 |
| 4 17 45 | MAR. . | 23.10 24 | 23 16 46 | | MAR. . | 20. 1 34 | 19 20 2 |
| | APRIL | 21 23 8 | 22 7 54 | 4 11 12 | APRIL | 18 14 18 | 18 6 29 |
| | MAY . | 21.11 52 | 21 21 2 | | MAY . | 18. 8 2 | 17 18 29 |
| | JUNE . | 20. 0 36 | 20 8 11 | | JUNE . | 16.15 46 | 16 8 22 |
| | JULY . | 19.13 20 | 19 17 55 | | JULY . | 16. 4 30 | 16 0 0 |
| | AUG. . | 18. 2 4 | 18 3 6 | | AUG. . | 14.17 14 | 14 16 44 |
| | SEPT. . | 16 14 43 | 16 12 30 | | SEPT. . | 13. 5 58 | 13 9 38 |
| | OCT. . | 16. 3 32 | 15 22 39 | | OCT. . | 12.18 42 | 12 1 40 |
| | NOV. . | 14.16 16 | 14 9 43 | | NOV. . | 11. 7 26 | 11 16 37 |
| | DEC. . | 14. 5 0 | 13 22 3 | | DEC. . | 10.20 10 | 11 5 41 |
| 1590. | JAN. . | 12.17 44 | 12 11 24 | 1587. | JAN. . | 9. 8 54 | 9 16 55 |
| <i>B.</i> | FEB. . | 11. 6 28 | 11 1 50 | <i>E.</i> | FEB. . | 7.21 38 | 8 2 32 |
| 4 23 34 | MAR. . | 12.19 13 | 12 17 9 | | MAR. . | 9.10 22 | 9 10 58 |
| | APRIL | 11. 7 57 | 11 8 56 | 4 17 1 | APRIL | 7 23 6 | 7 18 57 |
| | MAY . | 10.20 41 | 11 0 26 | | MAY . | 7.11 50 | 7 8 27 |
| | JUNE . | 9 9 25 | 9 15 4 | | JUNE . | 6. 0 34 | 5 13 29 |
| | JULY . | 8 22 9 | 9 4 24 | | JULY . | 5 13 18 | 5 1 49 |
| | AUG. . | 7 10 53 | 7 16 30 | | AUG. . | 4 2 2 | 3 16 47 |
| | SEPT. . | 5 23 37 | 6 3 41 | | SEPT. . | 2 14 46 | 2 9 59 |
| | OCT. . | 5 12 21 | 5 14 30 | | OCT. . | { 2 3 30 | 2 4 22 |
| | NOV. . | 4 1 5 | 4 1 17 | | | { 31 16 14 | 31 22 40 |
| | DEC. . | 3 13 49 | 3 12 8 | | NOV. . | 30. 4 53 | 30 15 32 |
| | | | | | DEC. . | 29 17 42 | 30 6 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|--|---|---|---|---|--|
| B.C. 1586. D. April. <i>d. h. m.</i> 4 22 49 | JAN. . FEB. . MAR. . APRIL . MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 28 6 26 26 19 10 28 7 55 26 20 39 26 9 23 24 22 7 24 10 51 22 23 35 21 12 19 21 1 3 19 13 47 19 2 31 | <i>d. h. m.</i> 28 18 5 27 3 43 28 11 38 26 18 41 26 1 55 24 10 25 23 21 16 22 11 5 21 3 48 20 22 38 19 18 6 19 12 33 | B.C. 1583. G. April. <i>d. h. m.</i> 4 16 16 | JAN. . FEB. . MAR. . APRIL . MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 24 21 36 23 10 20 24 23 5 23 11 49 23 0 33 21 13 17 21 2 1 19 14 45 18 3 29 17 16 13 16 4 57 15 17 41 | <i>d. h. m.</i> 23 1 35 23 19 7 25 10 33 28 23 18 28 9 37 21 13 12 21 2 9 19 10 23 17 19 42 17 6 38 15 19 24 15 10 0 |
| 1585. C.B. 4 4 38 | JAN. . FEB. . MAR. . APRIL . MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 17 15 15 16 3 59 16 16 44 15 5 28 14 18 12 13 6 56 12 19 40 11 8 24 9 21 8 9 9 52 7 22 36 7 11 20 | 18 4 36 16 17 41 17 3 54 15 11 55 14 18 44 13 1 26 12 9 9 10 18 54 9 7 28 8 23 3 7 17 11 7 12 38 | 1582. F. 4 22 5 | JAN. . FEB. . MAR. . APRIL . MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 6 25 12 19 9 14 7 54 12 20 38 12 9 22 10 22 6 10 10 50 8 23 34 7 12 18 7 1 2 5 13 46 5 2 30 | 14 2 6 12 19 4 14 11 59 13 3 54 12 18 5 11 6 18 10 16 52 9 2 23 7 11 55 6 21 50 5 8 33 4 20 10 |
| 1584. A. 4 10 27 | JAN. . FEB. . MAR. . APRIL . MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 6 0 4 4 12 48 6 1 32 4 14 16 4 3 0 2 15 44 { 2 4 28 31 17 12 30 5 56 23 18 40 28 7 24 26 20 8 26 8 52 | 6 7 44 5 0 54 6 15 13 5 2 31 4 11 22 2 18 41 2 1 39 31 9 17 29 18 32 28 6 4 27 20 14 26 12 49 23 7 3 | 1581. E.D. 4 3 54 | JAN. . FEB. . MAR. . APRIL { MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 3 15 14 2 3 58 2 16 42 1 5 26 30 6 54 23 19 38 23 8 22 23 21 6 23 9 50 24 22 34 23 11 18 23 0 2 | 3 8 47 1 22 21 2 13 1 1 4 22 30 19 58 30 11 9 29 1 20 23 14 16 27 2 8 25 13 22 25 0 19 23 11 9 22 21 59 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1580. C. April. <i>d. h. m.</i> 4 9 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1577. G.F. April. <i>d. h. m.</i> 4 8 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 12 46 | 21 8 52 | | JAN. . | 19 3 56 | 19 16 35 |
| | FEB. . | 20 1 30 | 19 20 5 | | FEB. . | 17 16 40 | 18 3 14 |
| | MAR. . | 21 14 15 | 21 8 8 | | MAR. . | 18 5 25 | 18 11 46 |
| | APRIL | 20 2 59 | 19 21 21 | | APRIL | 16 18 9 | 16 19 0 |
| | MAY . | 19 15 43 | 19 11 51 | | MAY . | 16 6 53 | 16 1 54 |
| | JUNE . | 18 4 27 | 18 3 15 | | JUNE . | 14 19 37 | 14 9 36 |
| | JULY . | 17 17 11 | 17 18 56 | | JULY . | 14 8 21 | 13 19 10 |
| | AUG. . | 16 5 55 | 16 10 14 | | AUG. . | 12 21 5 | 12 7 30 |
| | SEPT. . | 14 18 39 | 15 0 43 | | SEPT. . | 11 9 49 | 10 22 55 |
| | OCT. . | 14 7 23 | 14 14 9 | | OCT. . | 10 22 33 | 10 16 57 |
| | NOV. . | 12 20 7 | 13 2 31 | | NOV. . | 9 11 17 | 9 12 22 |
| | DEC. . | 12 8 51 | 12 13 50 | | DEC. . | 9 0 1 | 9 7 34 |
| 1579. B. 4 15 31 | JAN. . | 10 21 35 | 11 0 11 | 1576. E. 4 8 58 | JAN. . | 7 12 45 | 8 0 57 |
| | FEB. . | 9 10 19 | 9 9 45 | | FEB. . | 6 1 20 | 6 15 29 |
| | MAR. . | 10 23 4 | 10 19 2 | | MAR. . | 7 14 14 | 8 2 59 |
| | APRIL | 9 11 48 | 9 4 44 | | APRIL | 6 2 58 | 6 11 54 |
| | MAY . | 9 0 32 | 8 15 41 | | MAY . | 5 15 42 | 5 19 8 |
| | JUNE . | 7 13 16 | 7 4 30 | | JUNE . | 4 4 26 | 4 1 45 |
| | JULY . | 7 2 0 | 6 19 21 | | JULY . | 3 17 10 | 3 8 53 |
| | AUG. . | 5 14 44 | 5 11 46 | | AUG. . | { 2 5 54 31 18 38 | 1 17 36 31 4 46 |
| | SEPT. . | 4 3 28 | 4 4 57 | | SEPT. . | 30 7 22 | 29 18 55 |
| | OCT. . | 3 16 12 | 3 21 53 | | OCT. . | 29 20 6 | 29 11 54 |
| | NOV. . | 2 4 56 | 2 13 39 | | NOV. . | 28 8 50 | 28 6 50 |
| | DEC. . | { 1 17 40 31 6 24 | 2 3 45 31 15 52 | | DEC. . | 27 21 34 | 28 2 14 |
| 1578. A. 4 21 20 | JAN. . | 29 19 8 | 30 2 8 | 1575. D. 4 14 47 | JAN. . | 26 10 18 | 26 20 23 |
| | FEB. . | 28 7 52 | 28 10 54 | | FEB. . | 24 23 2 | 25 12 9 |
| | MAR. . | 29 20 36 | 29 18 43 | | MAR. . | 26 11 46 | 27 0 53 |
| | APRIL | 28 9 20 | 28 2 44 | | APRIL | 25 0 30 | 25 10 51 |
| | MAY . | 27 22 4 | 27 11 45 | | MAY . | 24 13 14 | 24 18 50 |
| | JUNE . | 26 10 48 | 25 22 48 | | JUNE . | 23 1 53 | 23 1 55 |
| | JULY . | 25 23 32 | 25 12 29 | | JULY . | 22 14 42 | 22 9 13 |
| | AUG. . | 24 12 16 | 24 4 46 | | AUG. . | 21 3 26 | 20 17 43 |
| | SEPT. . | 23 1 0 | 22 22 54 | | SEPT. . | 19 16 10 | 19 4 9 |
| | OCT. . | 22 13 44 | 22 17 37 | | OCT. . | 19 4 54 | 18 17 2 |
| | NOV. . | 21 2 28 | 21 11 29 | | NOV. . | 17 17 38 | 17 8 23 |
| | DEC. . | 20 15 12 | 21 3 21 | | DEC. . | 17 6 22 | 17 1 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1574. C. April. <i>d. h. m.</i> 4 20 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1571. F. April. <i>d. h. m.</i> 4 14 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 19 6 | 15 20 11 | | JAN. . | 12 10 16 | 12 7 41 |
| | FEB. . | 14 7 50 | 14 14 12 | | FEB. . | 10 23 0 | 10 18 25 |
| | MAR. . | 15 20 35 | 16 6 40 | | MAR. . | 12 11 45 | 12 5 43 |
| | APRIL | 14 9 19 | 14 20 43 | | APRIL | 11 0 29 | 10 18 2 |
| | MAY . | 13 22 3 | 14 8 15 | | MAY . | 10 13 13 | 10 7 43 |
| | JUNE . | 12 10 47 | 12 17 43 | | JUNE . | 9 1 57 | 8 22 42 |
| | JULY . | 11 23 31 | 12 2 1 | | JULY . | 8 14 41 | 8 14 27 |
| | AUG. . | 10 12 15 | 10 10 11 | | AUG. . | 7 3 25 | 7 6 15 |
| | SEPT. . | 9 0 59 | 8 19 4 | | SEPT. . | 5 16 9 | 5 21 29 |
| | OCT. . | 8 13 43 | 8 5 17 | | OCT. . | 5 4 53 | 5 11 44 |
| | NOV. . | 7 2 27 | 6 17 8 | | NOV. . | 3 17 37 | 4 0 51 |
| | DEC. . | 6 15 11 | 6 6 45 | | DEC. . | 3 6 21 | 3 12 44 |
| 1573. D.A. 4 2 21 | JAN. . | 5 3 55 | 4 21 57 | 1570. E. 4 19 51 | JAN. . | { 1 19 5 31 7 49 | 1 23 30 31 9 15 |
| | FEB. . | 3 16 39 | 3 14 18 | | FEB. . | ... | ... |
| | MAR. . | 4 5 23 | 4 7 6 | | MAR. . | { 1 20 33 31 9 17 | 1 18 21 31 3 29 |
| | APRIL | 2 18 7 | 2 23 27 | | APRIL | 29 22 1 | 29 18 30 |
| | MAY . | { 2 6 51 31 19 35 | 2 14 31 | | MAY . | 29 10 45 | 29 1 11 |
| | JUNE . | 30 8 19 | { 1 3 49 30 15 20 | | JUNE . | 27 23 29 | 27 15 0 |
| | JULY . | 29 21 3 | 30 1 35 | | JULY . | 27 12 13 | 27 6 51 |
| | AUG. . | 28 9 47 | 28 11 16 | | AUG. . | 26 0 57 | 25 23 57 |
| | SEPT. . | 26 22 31 | 26 21 6 | | SEPT. . | 24 13 41 | 24 17 23 |
| | OCT. . | 26 11 15 | 26 7 31 | | OCT. . | 24 2 25 | 24 10 5 |
| | NOV. . | 24 23 59 | 24 18 41 | | NOV. . | 22 15 9 | 23 1 14 |
| | DEC. . | 24 12 43 | 24 6 39 | | DEC. . | 22 3 53 | 22 14 22 |
| 1572. G. 4 8 13 | JAN. . | 23 1 27 | 22 19 30 | 1569. D.C. 4 1 40 | JAN. . | 20 16 37 | 21 1 27 |
| | FEB. . | 21 14 11 | 21 9 18 | | FEB. . | 19 5 21 | 19 10 44 |
| | MAR. . | 23 2 56 | 23 0 4 | | MAR. . | 19 18 6 | 19 18 49 |
| | APRIL | 21 15 40 | 21 15 27 | | APRIL | 18 6 50 | 18 2 26 |
| | MAY . | 21 4 24 | 21 6 53 | | MAY . | 17 19 34 | 17 10 33 |
| | JUNE . | 19 17 8 | 19 21 43 | | JUNE . | 16 8 18 | 15 27 29 |
| | JULY . | 19 5 52 | 19 11 31 | | JULY . | 15 21 2 | 15 8 49 |
| | AUG. . | 17 18 36 | 18 0 11 | | AUG. . | 14 9 46 | 13 23 56 |
| | SEPT. . | 16 7 20 | 16 11 58 | | SEPT. . | 12 22 30 | 12 17 25 |
| | OCT. . | 15 20 4 | 15 23 15 | | OCT. . | 12 11 14 | 12 12 12 |
| | NOV. . | 14 8 43 | 14 10 14 | | NOV. . | 10 23 53 | 11 6 48 |
| | DEC. . | 13 21 32 | 13 21 1 | | DEC. . | 10 12 42 | 10 23 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|---|---|---|---|--|
| B.C. 1568. B. April. <i>d. h. m.</i> 4 7 28 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 9 1 26 7 14 10 9 2 55 7 15 39 7 4 23 5 17 7 5 5 51 3 18 35 2 7 19 1 20 3 31 8 47 20 21 31 20 10 15 | <i>d. h. m.</i> 9 14 28 8 2 18 9 11 40 7 19 18 7 2 8 5 9 15 4 17 46 3 4 42 1 18 33 1 11 31 31 6 32 30 2 7 29 20 33 | B.C. 1565. F.E. April. <i>d. h. m.</i> 4 0 55 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 6 16 36 5 5 20 5 18 5 4 6 49 3 19 33 2 8 17 1 21 1 31 9 45 29 22 29 28 11 13 27 23 57 26 12 41 26 1 25 | <i>d. h. m.</i> 6 14 51 5 8 59 6 2 13 4 17 26 4 6 14 2 16 46 2 1 41 31 10 1 20 18 30 28 4 18 27 15 24 26 4 4 25 18 19 |
| 1567. A. 4 13 17 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 27 22 59 26 11 43 28 0 27 26 13 11 26 1 55 24 14 39 24 3 23 22 16 7 21 4 51 20 17 35 19 6 19 18 19 3 | 23 12 33 27 1 27 28 11 29 26 19 23 26 2 9 24 8 56 23 16 49 22 2 46 20 15 29 20 7 8 19 1 14 18 20 31 | 1564. D. 4 6 44 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 24 14 9 23 2 53 21 15 37 23 4 21 22 17 5 21 5 49 20 18 33 19 7 17 17 20 1 17 8 45 15 21 20 15 10 13 | 24 9 53 23 2 16 24 18 45 23 10 29 23 0 45 21 13 17 21 0 19 19 10 27 17 20 24 17 6 39 15 17 28 15 4 57 |
| 1566. G. 4 19 6 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 17 7 47 15 20 31 17 9 16 15 22 0 15 10 44 13 23 23 13 12 12 12 0 56 10 13 40 10 2 21 8 15 8 8 3 52 | 17 15 22 16 8 21 17 22 32 16 9 47 15 18 40 14 2 9 13 9 21 11 17 17 10 2 49 9 14 32 8 4 40 7 21 1 | 1563. C. 4 12 33 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 13 22 57 12 11 41 14 0 26 12 13 10 12 1 54 10 14 33 10 3 22 8 16 6 7 4 50 6 17 34 5 6 18 4 19 2 | 13 17 7 12 6 9 13 20 9 12 11 3 12 2 26 10 17 41 10 8 14 8 21 44 7 10 13 6 21 53 5 9 14 4 20 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|-----------------------|-----------------------|--|---------|-----------------------|----------------------|
| B.C. 1562. B. April. <i>d. h. m.</i> 4 18 21 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1559. E. April. <i>d. h. m.</i> 4 11 48 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 3 7 46 | 3 6 44 | | JAN. . | 29 11 40 | 30 0 48 |
| | FEB. . | 1 20 30 | 1 17 9 | | FEB. . | 23 0 24 | 23 11 14 |
| | MAR. . | 3 9 15 | 3 8 50 | | MAR. . | 20 13 9 | 20 19 30 |
| | APRIL | 1 21 59 | 1 15 17 | | APRIL | 23 1 53 | 23 2 30 |
| | MAY . | { 1 10 43 20 23 27 | { 1 4 4 30 18 19 | | MAY . | 27 14 37 | 27 9 17 |
| | JUNE . | 29 12 11 | 29 9 49 | | JUNE . | 26 3 21 | 25 16 58 |
| | JULY . | 29 0 55 | 29 1 51 | | JULY . | 25 16 5 | 25 2 33 |
| | AUG. . | 27 13 39 | 27 17 43 | | AUG. . | 21 4 49 | 23 15 6 |
| | SEPT. . | 26 2 23 | 26 8 49 | | SEPT. . | 22 17 33 | 22 6 39 |
| | OCT. . | 25 15 7 | 25 22 44 | | OCT. . | 22 6 17 | 22 0 50 |
| | NOV. . | 24 3 51 | 24 11 22 | | NOV. . | 20 19 1 | 20 20 21 |
| | DEC. . | 23 16 35 | 23 22 41 | | DEC. . | 20 7 45 | 20 15 33 |
| 1561. A.G. 4 0 10 | JAN. . | 22 5 19 | 22 8 46 | 1558. D. 4 17 37 | JAN. . | 18 20 29 | 19 8 51 |
| | FEB. . | 20 18 3 | 20 17 55 | | FEB. . | 17 9 13 | 17 23 15 |
| | MAR. . | 21 6 47 | 21 2 41 | | MAR. . | 18 21 57 | 19 10 35 |
| | APRIL | 19 19 31 | 19 11 56 | | APRIL | 17 10 41 | 17 19 22 |
| | MAY . | 19 8 15 | 18 22 32 | | MAY . | 16 23 25 | 17 2 33 |
| | JUNE . | 17 20 59 | 17 11 11 | | JUNE . | 15 12 9 | 15 9 14 |
| | JULY . | 17 9 43 | 17 2 6 | | JULY . | 15 0 53 | 14 16 31 |
| | AUG. . | 15 22 27 | 15 18 49 | | AUG. . | 13 13 37 | 13 1 27 |
| | SEPT. . | 14 11 11 | 14 12 29 | | SEPT. . | 12 2 21 | 11 12 48 |
| | OCT. . | 13 23 55 | 14 5 55 | | OCT. . | 11 15 5 | 11 3 2 |
| | NOV. . | 12 12 39 | 12 22 8 | | NOV. . | 10 3 49 | 9 20 1 |
| | DEC. . | 12 1 23 | 12 12 22 | | DEC. . | 9 16 33 | 9 14 47 |
| 1560. F. 4 5 59 | JAN. . | 10 14 7 | 11 0 23 | 1557. C.B. 3 23 25 | JAN. . | 8 5 17 | 8 9 56 |
| | FEB. . | 9 2 51 | 9 10 27 | | FEB. . | 6 18 1 | 7 3 54 |
| | MAR. . | 10 15 36 | 10 18 51 | | MAR. . | 7 6 46 | 7 19 27 |
| | APRIL | 9 4 20 | 9 2 21 | | APRIL | 5 19 30 | 6 8 7 |
| | MAY . | 8 17 4 | 8 10 2 | | MAY . | 5 8 14 | 5 18 5 |
| | JUNE . | 7 5 48 | 6 18 52 | | JUNE . | 3 20 58 | 4 2 11 |
| | JULY . | 6 18 32 | 6 5 51 | | JULY . | 3 9 42 | 3 9 32 |
| | AUG. . | 5 7 16 | 4 19 37 | | AUG. . | { 1 22 26 31 11 10 | { 1 17 8 31 1 57 |
| | SEPT. . | 3 20 0 | 3 12 8 | | SEPT. . | 20 23 54 | 29 12 37 |
| | OCT. . | 3 8 44 | 3 6 35 | | OCT. . | 20 12 33 | 29 1 33 |
| | NOV. . | 1 21 28 | 2 1 38 | | NOV. . | 28 1 22 | 27 16 46 |
| | DEC. . | { 1 10 12 30 22 56 | { 1 19 45 31 11 41 | | DEC. . | 27 14 6 | 27 9 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1556. A. April. <i>d. h. m.</i> 4 5 14 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1553. E.D. April. <i>d. h. m.</i> 3 22 41 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26. 2 50 | 26. 3 42 | | JAN. . | 23.18 0 | 23 16 10 |
| | FEB. . | 24.15 34 | 24 21 19 | | FEB. . | 22. 6 44 | 22 2 23 |
| | MAR. . | 26. 4 18 | 26 13 32 | | MAR. . | 22.19 28 | 22 13 5 |
| | APRIL | 24 17 2 | 25 3 33 | | APRIL | 21. 8 12 | 21 0 54 |
| | MAY . | 24. 5 46 | 24 15 14 | | MAY . | 20 20 56 | 20 14 17 |
| | JUNE . | 22.18 30 | 23 0 59 | | JUNE . | 19. 9 40 | 19 5 12 |
| | JULY . | 22. 7 14 | 22 9 43 | | JULY . | 18 22 24 | 18 21 11 |
| | AUG. . | 20.19 58 | 20 13 19 | | AUG. . | 17 11 8 | 17 13 23 |
| | SEPT. . | 19. 8 42 | 19 3 35 | | SEPT. . | 15 23 52 | 16 5 18 |
| | OCT. . | 18.21 26 | 18 14 2 | | OCT. . | 15 12 36 | 15 20 7 |
| | NOV. . | 17.10 10 | 17 1 53 | | NOV. . | 14. 1 20 | 14 9 35 |
| | DEC. . | 16.22 54 | 16 15 13 | | DEC. . | 13.14 4 | 13 21 36 |
| 1555. G. 4 11 3 | JAN. . | 15.11 38 | 15 5 56 | 1552. C. 4 4 29 | JAN. . | 12 2 48 | 12 8 11 |
| | FEB. . | 14. 0 22 | 13 21 42 | | FEB. . | 10.15 32 | 10 17 23 |
| | MAR. . | 15.13 7 | 15 14 0 | | MAR. . | 12 4 17 | 12 2 13 |
| | APRIL | 14 1 51 | 14 6 4 | | APRIL | 10 17 1 | 10 10 52 |
| | MAY . | 13 14 35 | 13 21 7 | | MAY . | 10. 5 45 | 9 20 31 |
| | JUNE . | 12 3 19 | 12 10 39 | | JUNE . | 8 18 20 | 8 7 59 |
| | JULY . | 11.16 3 | 11 22 35 | | JULY . | 8 7 13 | 7 21 47 |
| | AUG. . | 10 4 47 | 10 9 21 | | AUG. . | 6 19 57 | 6 13 47 |
| | SEPT. . | 8 17 31 | 8 19 35 | | SEPT. . | 5 8 41 | 5 7 19 |
| | OCT. . | 8 6 15 | 8 5 50 | | OCT. . | 4 21 25 | 5 1 14 |
| | NOV. . | 6 13 59 | 6 16 27 | | NOV. . | 3.10 9 | 3 18 23 |
| | DEC. . | 6 7 43 | 6 3 33 | | DEC. . | 2 22 53 | 3 9 43 |
| 1554. F. 4 16 52 | JAN. . | 4 20 27 | 4 15 12 | 1551. B. 4 10 18 | JAN. . | { 1 11 37 31 0 21 | 1 22 59 31 9 51 |
| | FEB. . | 3 9 11 | 3 3 30 | | FEB. . | | ... |
| | MAR. . | 4 21 56 | 4 16 43 | | MAR. . | { 1 13 6 31 1 50 | 1 18 50 31 2 31 |
| | APRIL | 3 10 40 | 3 6 54 | | APRIL | 29 14 34 | 29 9 51 |
| | MAY . | 2 23 24 | 2 21 53 | | MAY . | 29 3 18 | 28 17 50 |
| | JUNE . | 1 12 8 | 1 13 21 | | JUNE . | 27 16 2 | 27 3 36 |
| | JULY . | { 1 0 52 30 13 36 | 1 4 27 30 13 43 | | JULY . | 27 4 46 | 26 15 57 |
| | AUG. . | 29 2 20 | 29 8 1 | | AUG. . | 25 17 30 | 25 7 14 |
| | SEPT. . | 27.15 4 | 27 20 24 | | SEPT. . | 24 6 14 | 24 1 0 |
| | OCT. . | 27. 3 48 | 27 8 4 | | OCT. . | 23 18 58 | 23 20 6 |
| | NOV. . | 25 16 32 | 25 19 13 | | NOV. . | 22 7 42 | 22 14 53 |
| | DEC. . | 25. 5 16 | 25 5 53 | | DEC. . | 21 20 26 | 22 8 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|-----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1550. | JAN. . | 20 9 10 | 20 22 42 | 1547. | JAN. . | 17 0 20 | 16 22 33 |
| A. | FEB. . | 18 21 54 | 19 10 20 | D. | FEB. . | 15 13 4 | 15 16 15 |
| April. | MAR. . | 20 10 38 | 20 19 26 | April. | MAR. . | 17 1 48 | 17 9 7 |
| <i>d. h. m.</i> | APRIL | 18 23 22 | 19 2 51 | <i>d. h. m.</i> | APRIL | 15 14 32 | 16 0 14 |
| 4 16 7 | MAY . | 18 12 6 | 18 9 32 | 4 9 34 | MAY . | 15 3 16 | 15 13 6 |
| | JUNE . | 17 0 50 | 16 16 38 | | JUNE . | 13 16 0 | 13 23 53 |
| | JULY . | 16 13 31 | 16 1 14 | | JULY . | 13 4 44 | 13 9 12 |
| | AUG. . | 15 2 18 | 14 12 16 | | AUG. . | 11 17 28 | 11 17 58 |
| | SEPT. . | 13 15 2 | 13 2 22 | | SEPT. . | 10 6 12 | 10 3 2 |
| | OCT. . | 13 3 46 | 12 19 26 | | OCT. . | 9 18 56 | 9 13 1 |
| | NOV. . | 11 16 30 | 11 14 30 | | NOV. . | 8 7 40 | 8 0 13 |
| | DEC. . | 11 5 14 | 11 10 4 | | DEC. . | 7 20 24 | 7 12 43 |
| 1549. | JAN. . | 9 17 58 | 10 4 26 | 1546. | JAN. . | 6 9 8 | 6 2 32 |
| G.F. | FEB. . | 8 6 42 | 8 20 17 | C. | FEB. . | 4 21 52 | 4 17 32 |
| | MAR. . | 8 19 27 | 9 9 4 | | MAR. . | 6 10 37 | 6 9 22 |
| 3 21 56 | APRIL | 7 8 11 | 7 18 58 | 4 15 22 | APRIL | 4 23 21 | 5 1 27 |
| | MAY . | 6 20 55 | 7 2 48 | | MAY . | 4 12 5 | 4 17 0 |
| | JUNE . | 5 9 39 | 5 9 38 | | JUNE . | 3 0 49 | 3 7 24 |
| | JULY . | 4 22 23 | 4 16 33 | | JULY . | 2 13 33 | 2 20 19 |
| | AUG. . | 3 11 7 | 3 0 39 | | AUG. . | { 1 2 17 30 15 1 | { 1 7 52 30 18 34 |
| | SEPT. . | 1 23 51 | { 1 10 48 30 23 40 | | SEPT. . | 29 3 45 | 29 4 59 |
| | OCT. . | { 1 12 35 31 1 19 | 30 15 21 | | OCT. . | 28 16 29 | 28 15 33 |
| | NOV. . | 29 14 3 | 29 9 18 | | NOV. . | 27 5 13 | 27 2 26 |
| | DEC. . | 29 2 47 | 29 4 20 | | DEC. . | 26 17 57 | 26 13 40 |
| 1548. | JAN. . | 27 15 31 | 27 22 54 | 1545. | JAN. . | 25 6 41 | 25 1 22 |
| E. | FEB. . | 26 4 15 | 26 15 39 | B.A. | FEB. . | 23 19 25 | 23 13 47 |
| | MAR. . | 27 17 0 | 28 5 44 | | MAR. . | 24 8 9 | 24 3 11 |
| 4 3 45 | APRIL | 26 5 44 | 26 16 57 | 3 21 11 | APRIL | 22 20 53 | 22 17 38 |
| | MAY . | 25 18 28 | 26 1 56 | | MAY . | 22 9 37 | 22 8 51 |
| | JUNE . | 24 7 12 | 24 9 39 | | JUNE . | 20 22 21 | 21 0 15 |
| | JULY . | 23 19 56 | 23 17 10 | | JULY . | 20 11 5 | 20 15 12 |
| | AUG. . | 22 8 40 | 22 1 25 | | AUG. . | 18 23 49 | 19 5 17 |
| | SEPT. . | 20 21 24 | 20 11 15 | | SEPT. . | 17 12 33 | 17 18 24 |
| | OCT. . | 20 10 8 | 19 23 6 | | OCT. . | 17 1 17 | 17 6 33 |
| | NOV. . | 18 22 52 | 18 13 9 | | NOV. . | 15 14 1 | 15 18 10 |
| | DEC. . | 18 11 36 | 18 5 11 | | DEC. . | 15 2 45 | 15 5 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1544. | JAN. . | 13 15 29 | 13 15 21 | 1541. | JAN. . | 11 6 30 | 11 19 51 |
| G. | FEB. . | 12 4 13 | 12 1 19 | D.C. | FEB. . | 9 19 23 | 10 8 52 |
| April. | MAR. . | 13 16 58 | 13 11 25 | April. | MAR. . | 10 8 8 | 10 19 4 |
| <i>d. h. m.</i> | APRIL | 12 5 42 | 11 22 22 | <i>d. h. m.</i> | APRIL | 8 20 52 | 9 3 6 |
| 4 3 0 | MAY . | 11 18 26 | 11 10 44 | 3 20 27 | MAY . | 8 9 36 | 8 9 57 |
| | JUNE . | 10 7 10 | 10 0 50 | | JUNE . | 6 22 20 | 6 16 42 |
| | JULY . | 9 19 54 | 9 16 27 | | JULY . | 6 11 4 | 6 0 26 |
| | AUG. . | 8 8 38 | 8 8 54 | | AUG. . | 4 23 48 | 4 10 12 |
| | SEPT. . | 6 21 22 | 7 1 19 | | SEPT. . | 3 12 32 | 2 22 50 |
| | OCT. . | 6 10 6 | 6 16 59 | | OCT. . | 3 1 16 | 2 14 31 |
| | NOV. . | 4 22 50 | 5 7 22 | | NOV. . | 1 14 0 | 1 8 46 |
| | DEC. . | 4 11 34 | 4 20 12 | | DEC. . | { 1 2 44 30 15 28 | { 1 4 18 30 23 25 |
| 1543. | JAN. . | 3 0 18 | 3 7 25 | 1540. | JAN. . | 29 4 12 | 29 16 35 |
| F. | FEB. . | 1 13 2 | 1 17 12 | B. | FEB. . | 27 16 56 | 23 6 50 |
| | MAR. . | 3 1 47 | 3 1 56 | | MAR. . | 29 5 41 | 29 18 4 |
| 4 8 49 | APRIL | 1 14 31 | { 1 10 16 30 19 7 | 4 2 15 | APRIL | 27 18 25 | 23 2 46 |
| | MAY . | { 1 3 15 30 15 59 | 30 5 25 | | MAY . | 27 7 9 | 27 9 59 |
| | JUNE . | 29 4 43 | 28 17 59 | | JUNE . | 25 19 53 | 25 16 48 |
| | JULY . | 28 17 27 | 28 9 1 | | JULY . | 25 8 37 | 25 0 17 |
| | AUG. . | 27 6 11 | 27 2 3 | | AUG. . | 23 21 21 | 23 9 27 |
| | SEPT. . | 25 18 55 | 25 20 9 | | SEPT. . | 22 10 5 | 21 21 0 |
| | OCT. . | 25 7 30 | 25 14 3 | | OCT. . | 21 22 49 | 21 11 19 |
| | NOV. . | 23 20 23 | 24 6 35 | | NOV. . | 20 11 33 | 20 4 11 |
| | DEC. . | 23 9 7 | 23 20 58 | | DEC. . | 20 0 17 | 19 22 43 |
| 1542. | JAN. . | 21 21 51 | 22 8 53 | 1539. | JAN. . | 18 13 01 | 18 17 34 |
| E. | FEB. . | 20 10 35 | 20 18 36 | A. | FEB. . | 17 1 45 | 17 11 14 |
| | MAR. . | 21 23 19 | 22 2 40 | | MAR. . | 18 14 29 | 19 2 36 |
| 4 14 38 | APRIL | 20 12 3 | 20 9 54 | 4 8 4 | APRIL | 17 3 13 | 17 15 12 |
| | MAY . | 20 0 47 | 19 17 19 | | MAY . | 16 15 57 | 17 1 15 |
| | JUNE . | 18 13 31 | 18 2 0 | | JUNE . | 15 4 41 | 15 9 34 |
| | JULY . | 18 2 15 | 17 13 0 | | JULY . | 14 17 25 | 14 17 11 |
| | AUG. . | 16 14 59 | 16 2 53 | | AUG. . | 13 6 9 | 13 1 10 |
| | SEPT. . | 15 3 43 | 14 19 37 | | SEPT. . | 11 18 53 | 11 10 18 |
| | OCT. . | 14 16 27 | 14 14 22 | | OCT. . | 11 7 37 | 10 21 11 |
| | NOV. . | 13 5 11 | 13 9 40 | | NOV. . | 9 20 21 | 9 10 8 |
| | DEC. . | 12 17 55 | 13 3 55 | | DEC. . | 9 9 5 | 9 1 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1538. | JAN. . | 7 21 49 | 7 17 41 | 1535. | JAN. . | 4 12 59 | 4 14 37 |
| G. | FEB. . | 6 10 33 | 6 11 7 | C. | FEB. . | 3 1 43 | 3 0 30 |
| April. | MAR. . | 7 23 18 | 8 4 20 | April. | MAR. . | 4 14 23 | 4 10 13 |
| <i>d. h. m.</i> | APRIL | 6 12 2 | 6 20 19 | <i>d. h. m.</i> | APRIL | 3 3 12 | 2 20 22 |
| 4 13 53 | MAY . | 6 0 46 | 6 10 20 | 4 7 20 | MAY . | 2 15 56 | 2 7 45 |
| | JUNE . | 4 13 30 | 4 22 13 | | JUNE . | { 1 4 40 | { 2 7 45 |
| | JULY . | 4 2 14 | 4 8 21 | | | { 30 17 24 | { 31 20 52 |
| | AUG. . | 2 14 58 | 2 17 30 | | JULY . | 30 6 8 | 30 4 4 |
| | SEPT. . | { 1 3 42 | 1 2 34 | | AUG. . | 23 18 52 | 23 20 51 |
| | | { 30 16 26 | 30 12 15 | | SEPT. . | 27 7 36 | 27 13 16 |
| | OCT. . | 30 5 10 | 29 22 53 | | OCT. . | 26 20 20 | 27 4 35 |
| | NOV. . | 28 17 54 | 23 10 41 | | NOV. . | 25 9 4 | 25 18 22 |
| | DEC. . | 23 6 33 | 27 23 41 | | DEC. . | 24 21 48 | 25 6 23 |
| 1537. | JAN. . | 26 19 22 | 26 13 50 | 1534. | JAN. . | 23 10 32 | 23 16 44 |
| F.E. | FEB. . | 25 8 6 | 25 5 1 | B. | FEB. . | 21 23 16 | 22 1 43 |
| | MAR. . | 23 20 51 | 23 20 43 | | MAR. . | 23 12 1 | 23 9 57 |
| 3 19 42 | APRIL | 24 9 35 | 24 12 35 | 4 13 8 | APRIL | 22 0 45 | 21 18 13 |
| | MAY . | 23 22 19 | 24 3 40 | | MAY . | 21 13 29 | 21 3 33 |
| | JUNE . | 22 11 3 | 22 17 29 | | JUNE . | 20 2 13 | 19 14 50 |
| | JULY . | 21 23 47 | 22 5 55 | | JULY . | 19 14 57 | 19 4 40 |
| | AUG. . | 20 12 31 | 20 17 15 | | AUG. . | 18 3 41 | 17 20 54 |
| | SEPT. . | 19 1 15 | 19 4 1 | | SEPT. . | 16 16 25 | 16 14 49 |
| | OCT. . | 18 13 59 | 18 14 40 | | OCT. . | 16 5 9 | 16 9 11 |
| | NOV. . | 17 2 43 | 17 1 26 | | NOV. . | 14 17 53 | 15 2 42 |
| | DEC. . | 16 15 27 | 16 12 25 | | DEC. . | 14 6 37 | 14 18 19 |
| 1536. | JAN. . | 15 4 11 | 14 23 39 | 1533. | JAN. . | 12 19 21 | 13 7 27 |
| D. | FEB. . | 13 16 55 | 13 11 21 | A.G. | FEB. . | 11 8 5 | 11 18 6 |
| | MAR. . | 15 5 39 | 14 23 59 | | MAR. . | 11 20 49 | 12 2 45 |
| 4 1 31 | APRIL | 13 18 23 | 13 13 39 | 3 18 57 | APRIL | 10 9 33 | 10 10 8 |
| | MAY . | 13 7 7 | 13 4 25 | | MAY . | 9 22 17 | 9 17 13 |
| | JUNE . | 11 19 51 | 11 19 43 | | JUNE . | 8 11 1 | 8 1 4 |
| | JULY . | 11 8 33 | 11 11 14 | | JULY . | 7 23 45 | 7 10 47 |
| | AUG. . | 9 21 19 | 10 2 3 | | AUG. . | 6 12 29 | 5 23 14 |
| | SEPT. . | 8 10 3 | 8 15 57 | | SEPT. . | 5 1 13 | 4 14 41 |
| | OCT. . | 7 22 47 | 8 4 52 | | OCT. . | 4 13 57 | 4 8 41 |
| | NOV. . | 6 11 31 | 6 16 55 | | NOV. . | 3 2 41 | 3 4 2 |
| | DEC. . | 6 0 15 | 6 4 10 | | DEC. . | 2 15 25 | 2 23 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. | | | | B.C. | | | |
| 1532. | | | | 1529. | | | |
| F. | | | | C.B. | | | |
| | JAN. . | { 1 4 9 30 16 53 | 1 16 18 31 .6 44 | April. | JAN. . | 28 8 3 | 28 6 8 |
| | FEB. . | ... | ... | <i>d. h. m.</i> | FEB. . | 26 20 47 | 26 23 21 |
| | MAR. . | { 1 5 33 30 18 22 | 1 18 13 31 3 7 | 3 18 13 | MAR. . | 27 9 32 | 27 15 54 |
| April. | APRIL | 29 7 6 | 29 10 22 | | APRIL | 25 22 16 | 26 6 55 |
| <i>d. h. m.</i> | MAY . | 28 19 50 | 28 16 59 | | MAY . | 25 11 0 | 25 19 57 |
| 4 0 46 | JUNE . | 27 8 34 | 27 0 6 | | JUNE . | 23 23 44 | 24 7 8 |
| | JULY . | 26 21 18 | 26 8 49 | | JULY . | 23 12 28 | 23 16 49 |
| | AUG. . | 25 10 2 | 24 20 1 | | AUG. . | 22 1 12 | 22 2 5 |
| | SEPT. . | 23 22 46 | 23 10 17 | | SEPT. . | 20 13 56 | 20 11 36 |
| | OCT. . | 23 11 30 | 23 3 24 | | OCT. . | 20 2 40 | 19 21 52 |
| | NOV. . | 22 0 14 | 21 22 29 | | NOV. . | 18 15 24 | 18 9 5 |
| | DEC. . | 21 12 58 | 21 17 59 | | DEC. . | 18 4 8 | 17 21 21 |
| | | | | 1528. | JAN. . | 16 16 52 | 16 10 41 |
| | | | | A. | FEB. . | 15 5 36 | 15 1 4 |
| 1531. | JAN. . | 20 1 42 | 20 12 11 | | MAR. . | 16 18 20 | 16 16 20 |
| E. | FEB. . | 18 14 26 | 19 3 54 | | APRIL | 15 7 4 | 15 8 1 |
| | MAR. . | 20 3 10 | 20 16 31 | 4 0 1 | MAY . | 14 19 48 | 14 23 29 |
| 4 6 35 | APRIL | 18 15 54 | 19 2 20 | | JUNE . | 13 8 32 | 13 14 5 |
| | MAY . | 18 4 38 | 18 10 10 | | JULY . | 12 21 16 | 13 3 24 |
| | JUNE . | 16 17 22 | 16 17 5 | | AUG. . | 11 10 0 | 11 15 32 |
| | JULY . | 16 6 6 | 16 0 14 | | SEPT. . | 9 22 44 | 10 2 48 |
| | AUG. . | 14 18 50 | 14 8 35 | | OCT. . | 9 11 28 | 9 13 41 |
| | SEPT. . | 13 7 34 | 12 18 59 | | NOV. . | 8 0 12 | 8 0 30 |
| | OCT. . | 12 20 18 | 12 7 59 | | DEC. . | 7 12 56 | 7 11 20 |
| | NOV. . | 11 9 2 | 10 23 35 | | | | |
| | DEC. . | 10 21 46 | 10 17 19 | 1527. | JAN. . | 6 1 40 | 5 22 17 |
| | | | | G. | FEB. . | 4 14 24 | 4 9 29 |
| 1530. | JAN. . | 9 10 30 | 9 12 2 | | MAR. . | 6 3 9 | 5 21 18 |
| D. | FEB. . | 7 23 14 | 8 6 17 | | APRIL | 4 15 53 | 4 10 8 |
| | MAR. . | 9 11 59 | 9 22 49 | 4 5 50 | MAY . | 4 4 37 | 4 0 12 |
| 4 12 24 | APRIL | 8 0 43 | 8 12 45 | | JUNE . | 2 17 21 | 2 15 18 |
| | MAY . | 7 13 27 | 8 0 2 | | JULY . | { 2 6 5 31 18 49 | 2 6 53 31 22 18 |
| | JUNE . | 6 2 11 | 6 9 12 | | AUG. . | 30 7 33 | 30 12 58 |
| | JULY . | 5 14 55 | 5 17 11 | | SEPT. . | 28 20 17 | 29 2 41 |
| | AUG. . | 4 3 39 | 4 1 4 | | OCT. . | 28 9 1 | 29 15 22 |
| | SEPT. . | 2 16 23 | 2 9 42 | | NOV. . | 26 21 45 | 27 3 6 |
| | OCT. . | { 2 5 7 31 17 51 | 1 19 48 31 7 44 | | DEC. . | 26 10 29 | 26 18 58 |
| | NOV. . | 30 6 35 | 29 21 38 | | | | |
| | DEC. . | 29 19 19 | 29 13 18 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|--|---|---|---|--|
| B.C. 1526. F. April. <i>d. h. m.</i> 4 11 39 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 24 23 13 23 11 57 25 0 42 23 13 26 23 2 10 21 14 54 21 3 38 19 16 22 18 5 6 17 17 50 16 6 34 15 19 18 | <i>d. h. m.</i> 24 23 52 23 9 21 24 18 56 23 5 24 22 17 26 21 7 27 20 23 12 19 16 2 18 9 2 18 1 15 16 16 1 16 4 57 | B.C. 1523. B. April. <i>d. h. m.</i> 4 5 6 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 21 14 23 20 3 7 21 15 52 20 4 36 19 17 20 18 6 4 17 18 48 16 7 32 14 20 16 14 9 0 12 21 44 12 10 28 | <i>d. h. m.</i> 22 3 55 20 16 45 22 2 46 20 10 38 19 17 25 18 0 9 17 8 1 15 17 58 14 6 44 13 22 32 12 16 48 12 12 15 |
| 1525. E.D. 3 17 28 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 8 2 12 20 46 13 9 32 11 22 16 11 11 0 9 23 44 9 12 28 8 1 12 6 13 56 6 2 40 4 15 24 4 4 8 | 14 16 4 13 1 31 13 9 52 11 17 47 11 2 17 9 12 24 9 0 54 7 16 4 6 9 25 6 3 56 4 22 14 4 15 1 | 1522. A. 4 10 54 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 10 23 12 9 11 56 11 0 40 9 13 24 9 2 8 7 14 52 7 3 36 5 16 20 4 5 4 3 17 48 2 6 32 { 1 19 16 31 8 0 | 11 7 13 10 0 11 11 14 17 10 1 24 9 10 7 7 17 24 7 0 24 5 8 11 3 17 36 3 5 20 1 19 40 1 12 22 31 6 33 |
| 1524. C. 3 23 17 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 2 16 52 1 5 36 2 18 19 { 1 7 3 30 19 47 30 8 31 28 21 15 28 9 59 26 22 43 25 11 27 25 0 11 23 12 55 23 1 39 | 3 5 26 1 17 13 3 2 33 1 10 25 30 17 23 30 0 37 28 9 16 27 20 18 26 10 20 25 3 16 24 22 13 23 17 42 23 12 2 | 1521. G.F. 3 16 43 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 29 20 44 28 9 23 28 22 13 27 10 57 26 23 41 25 12 23 25 1 9 23 13 53 22 2 37 21 15 21 20 4 5 19 16 49 | 30 1 2 23 18 23 29 9 37 27 22 12 27 8 24 25 17 0 23 1 0 23 9 21 21 18 49 21 5 53 19 18 46 19 9 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1520. | JAN. . | 18 5 33 | 18 1 31 | B.C. 1517. | JAN. . | 15 20 43 | 15 23 17 |
| E. | FEB. . | 16 18 17 | 16 18 23 | B.A. | FEB. . | 14 9 27 | 14 8 45 |
| April. | MAR.. | 18 7 2 | 18 11 11 | April. | MAR.. | 14 22 11 | 14 17 56 |
| <i>d. h. m.</i> | APRIL | 16 19 46 | 17 2 58 | <i>d. h. m.</i> | APRIL | 13 10 55 | 13 8 35 |
| 3 22 32 | MAY . | 16 8 30 | 16 17 4 | 3 15 58 | MAY . | 12 23 39 | 12 14 35 |
| | JUNE . | 14 21 14 | 15 5 12 | | JUNE . | 11 12 23 | 11 3 31 |
| | JULY . | 14 9 58 | 14 15 46 | | JULY . | 11 1 7 | 10 18 23 |
| | AUG. . | 12 22 42 | 13 1 27 | | AUG. . | 9 13 51 | 9 11 2 |
| | SEPT. . | 11 11 26 | 11 10 59 | | SEPT. . | 8 2 35 | 8 4 19 |
| | OCT. . | 11 0 10 | 10 21 1 | | OCT. . | 7 15 19 | 7 21 17 |
| | NOV. . | 9 12 54 | 9 7 49 | | NOV. . | 6 4 8 | 6 13 4 |
| | DEC. . | 9 1 38 | 8 19 23 | | DEC. . | 5 16 47 | 6 3 4 |
| 1519. | JAN. . | 7 14 22 | 7 8 4 | 1516. | JAN. . | 4 5 31 | 4 15 3 |
| D. | FEB. . | 6 3 6 | 5 21 39 | G. | FEB. . | 2 18 15 | 3 1 8 |
| | MAR.. | 7 15 50 | 7 12 11 | | MAR.. | 4 7 0 | 4 9 46 |
| 4 4 21 | APRIL | 6 4 34 | 6 3 30 | 3 21 47 | APRIL | 2 19 44 | 2 17 36 |
| | MAY . | 5 17 18 | 5 19 3 | | MAY . | 2 8 28 | 2 1 30 |
| | JUNE . | 4 6 2 | 4 10 11 | | JUNE . | 31 21 12 | 31 10 35 |
| | JULY . | 3 18 46 | 4 0 22 | | JULY . | 30 9 56 | 29 21 43 |
| | AUG. . | 2 7 30 | 2 13 19 | | AUG. . | 29 22 40 | 29 11 39 |
| | | 31 20 14 | | | AUG. . | 23 11 24 | 23 4 8 |
| | SEPT. . | 30 8 58 | 1 1 15 | | SEPT. . | 27 0 8 | 26 22 24 |
| | | | 30 12 33 | | OCT. . | 23 12 52 | 26 17 10 |
| | OCT. . | 29 21 42 | 29 23 33 | | NOV. . | 25 1 36 | 25 11 0 |
| | NOV. . | 28 10 26 | 28 10 24 | | DEC. . | 24 14 20 | 25 2 43 |
| | DEC. . | 27 23 10 | 27 21 11 | | | | |
| 1518. | JAN. . | 26 11 54 | 26 7 59 | 1515. | JAN. . | 23 8 4 | 23 15 45 |
| C. | FEB. . | 25 0 38 | 24 19 9 | F. | FEB. . | 21 15 48 | 22 2 12 |
| | MAR.. | 26 13 23 | 26 7 9 | | MAR.. | 23 4 38 | 23 10 35 |
| 4 10 10 | APRIL | 25 2 7 | 24 20 22 | 4 3 36 | APRIL | 21 17 17 | 21 17 42 |
| | MAY . | 24 14 51 | 24 10 53 | | MAY . | 21 6 1 | 21 0 35 |
| | JUNE . | 23 3 35 | 23 2 21 | | JUNE . | 19 18 45 | 19 8 22 |
| | JULY . | 22 16 19 | 22 18 6 | | JULY . | 19 7 29 | 18 18 7 |
| | AUG. . | 21 5 3 | 21 9 28 | | AUG. . | 17 20 13 | 17 6 41 |
| | SEPT. . | 19 17 47 | 19 23 59 | | SEPT. . | 16 8 57 | 15 22 19 |
| | OCT. . | 19 6 31 | 19 13 27 | | OCT. . | 15 21 41 | 15 16 30 |
| | NOV. . | 17 19 15 | 18 1 47 | | NOV. . | 14 10 25 | 14 12 0 |
| | DEC. . | 17 7 59 | 17 13 3 | | DEC. . | 13 23 9 | 14 7 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1514. | JAN. . | 12 11 53 | 13 0 20 | 1511. | JAN. . | 9 3 3 | 8 21 19 |
| E. | FEB. . | 11 0 37 | 11 14 38 | A. | FEB. . | 7 15 47 | 7 13 33 |
| April. | MAR. . | 12 13 21 | 13 1 55 | April. | MAR. . | 9 4 31 | 9 6 20 |
| <i>d. h. m.</i> | APRIL | 11 2 5 | 11 10 40 | <i>d. h. m.</i> | APRIL | 7 17 15 | 7 22 35 |
| 4 9 25 | MAY . | 10 14 49 | 10 17 48 | 4 2 51 | MAY . | 7 5 59 | 7 13 33 |
| | JUNE . | 9 3 33 | 9 0 26 | | JUNE . | 5 18 43 | 6 2 46 |
| | JULY . | 8 16 17 | 8 7 40 | | JULY . | 5 7 27 | 5 14 15 |
| | AUG. . | 7 5 1 | 6 16 32 | | AUG. . | 3 20 11 | 4 0 32 |
| | SEPT. . | 5 17 45 | 5 3 56 | | SEPT. . | 2 8 55 | 2 10 19 |
| | OCT. . | 5 6 29 | 4 18 18 | | OCT. . | 1 21 39 | 1 20 16 |
| | NOV. . | 3 19 13 | 3 11 28 | | | 31 10 23 | 31 6 44 |
| | DEC. . | 3 7 57 | 3 6 26 | | NOV. . | 29 28 7 | 29 17 57 |
| | | | | | DEC. . | 29 11 51 | 29 5 55 |
| 1513. | JAN. . | 1 20 41 | 2 1 45 | 1510. | JAN. . | 28 0 35 | 27 18 44 |
| D.C. | | 31 9 25 | 31 19 47 | G. | FEB. . | 26 13 19 | 26 8 29 |
| | FEB. . | 29 22 10 | 1 11 19 | | MAR. . | 23 2 4 | 27 23 12 |
| | MAR. . | 30 10 54 | 30 23 50 | | APRIL | 26 14 48 | 26 14 38 |
| 3 15 14 | APRIL | 28 23 38 | 29 9 33 | 4 8 40 | MAY . | 26 3 32 | 26 5 57 |
| | MAY . | 28 12 22 | 28 17 32 | | JUNE . | 24 16 16 | 24 20 47 |
| | JUNE . | 27 1 6 | 27 0 40 | | JULY . | 24 5 0 | 24 10 35 |
| | JULY . | 26 13 50 | 26 8 4 | | AUG. . | 22 17 44 | 22 23 18 |
| | AUG. . | 25 2 34 | 24 16 43 | | SEPT. . | 21 6 28 | 21 11 9 |
| | SEPT. . | 23 15 18 | 23 3 21 | | OCT. . | 20 19 12 | 20 22 28 |
| | OCT. . | 23 4 2 | 22 16 24 | | NOV. . | 19 7 56 | 19 9 29 |
| | NOV. . | 21 16 46 | 21 7 55 | | DEC. . | 18 20 40 | 18 20 14 |
| | DEC. . | 21 5 30 | 21 1 20 | | | | |
| 1512. | JAN. . | 19 18 14 | 19 19 28 | 1509. | JAN. . | 17 9 24 | 17 6 50 |
| B. | FEB. . | 18 6 58 | 18 13 32 | F.E. | FEB. . | 15 22 8 | 15 17 30 |
| | MAR. . | 19 19 43 | 20 5 48 | | MAR. . | 16 10 53 | 16 4 48 |
| 3 21 3 | APRIL | 18 8 27 | 18 19 42 | 3 14 29 | APRIL | 14 23 37 | 14 17 2 |
| | MAY . | 17 21 11 | 18 7 6 | | MAY . | 14 12 21 | 14 6 45 |
| | JUNE . | 16 9 55 | 16 16 30 | | JUNE . | 13 1 5 | 12 21 47 |
| | JULY . | 15 22 39 | 16 0 50 | | JULY . | 12 13 49 | 12 13 35 |
| | AUG. . | 14 11 23 | 14 9 7 | | AUG. . | 11 2 33 | 11 5 29 |
| | SEPT. . | 13 0 7 | 12 18 9 | | SEPT. . | 9 15 17 | 9 20 46 |
| | OCT. . | 12 12 51 | 12 4 29 | | OCT. . | 9 4 1 | 9 11 3 |
| | NOV. . | 11 1 35 | 10 16 27 | | NOV. . | 7 16 45 | 8 0 8 |
| | DEC. . | 10 14 19 | 10 6 8 | | DEC. . | 7 5 29 | 7 12 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|-----------------------|----------------------|--|---------|-----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1508. D. April. <i>d. h. m.</i> 3 20 18 | JAN. . | 5 18 13 | 5 22 40 | B.C. 1505. A.G. April. <i>d. h. m.</i> 3 13 44 | JAN. . | 3 9 23 | 3 20 1 |
| | FEB. . | 4 6 57 | 4 8 17 | | FEB. . | 1 22 7 | 2 11 47 |
| | MAR. . | 5 19 41 | 5 17 17 | | MAR. . | { 2 10 51 31 23 35 | 3 0 29 |
| | APRIL . | 4 8 25 | 4 2 21 | | APRIL . | 30 12 19 | { 1 10 19 30 18 5 |
| | MAY . | 3 21 9 | 3 12 22 | | MAY . | 30 1 3 | 30 0 50 |
| | JUNE . | 2 9 53 | 2 0 9 | | JUNE . | 28 13 47 | 23 7 42 |
| | JULY . | { 1 22 37 31 11 21 | 1 14 6 31 6 4 | | JULY . | 23 2 31 | 27 15 43 |
| | AUG. . | 30 0 5 | 29 23 19 | | AUG. . | 26 15 15 | 26 1 52 |
| | SEPT. . | 28 12 49 | 28 16 50 | | SEPT. . | 25 3 59 | 24 14 48 |
| | OCT. . | 28 1 33 | 28 9 32 | | OCT. . | 24 16 43 | 24 6 39 |
| | NOV. . | 26 14 17 | 27 0 37 | | NOV. . | 23 5 27 | 23 0 50 |
| | DEC. . | 26 3 1 | 26 13 37 | | DEC. . | 22 18 11 | 22 20 5 |
| 1507. C. 4 2 7 | JAN. . | 24 15 45 | 25 0 33 | 1504. F. 3 19 33 | JAN. . | 21 6 55 | 21 14 49 |
| | FEB. . | 23 4 29 | 23 9 41 | | FEB. . | 19 19 39 | 20 7 35 |
| | MAR. . | 24 17 14 | 24 17 37 | | MAR. . | 21 8 24 | 21 21 34 |
| | APRIL . | 23 5 58 | 23 1 10 | | APRIL . | 19 21 8 | 20 8 35 |
| | MAY . | 22 18 42 | 22 9 25 | | MAY . | 19 9 52 | 19 17 24 |
| | JUNE . | 21 7 26 | 20 19 23 | | JUNE . | 17 22 36 | 18 0 52 |
| | JULY . | 20 20 10 | 20 7 54 | | JULY . | 17 11 20 | 17 8 9 |
| | AUG. . | 19 8 54 | 18 23 13 | | AUG. . | 16 0 4 | 15 16 14 |
| | SEPT. . | 17 21 38 | 17 16 53 | | SEPT. . | 14 12 48 | 14 1 56 |
| | OCT. . | 17 10 22 | 17 11 46 | | OCT. . | 14 1 32 | 13 18 49 |
| | NOV. . | 15 23 6 | 16 6 23 | | NOV. . | 12 14 16 | 12 4 6 |
| | DEC. . | 15 11 50 | 15 23 20 | | DEC. . | 12 3 0 | 11 20 31 |
| 1506. E. 4 7 56 | JAN. . | 14 0 34 | 14 13 44 | 1503. E. 4 1 22 | JAN. . | 10 15 44 | 10 14 19 |
| | FEB. . | 12 13 18 | 13 1 20 | | FEB. . | 9 4 28 | 9 8 21 |
| | MAR. . | 14 2 3 | 14 10 32 | | MAR. . | 10 17 12 | 11 1 25 |
| | APRIL . | 12 14 47 | 12 18 1 | | APRIL . | 9 5 56 | 9 16 29 |
| | MAY . | 12 3 31 | 12 0 49 | | MAY . | 8 18 40 | 9 5 7 |
| | JUNE . | 10 16 15 | 10 7 59 | | JUNE . | 7 7 24 | 7 15 33 |
| | JULY . | 10 4 59 | 9 16 39 | | JULY . | 6 20 8 | 7 0 29 |
| | AUG. . | 8 17 43 | 8 3 47 | | AUG. . | 5 8 52 | 5 8 53 |
| | SEPT. . | 7 6 27 | 6 17 57 | | SEPT. . | 3 21 36 | 3 17 40 |
| | OCT. . | 6 19 11 | 6 11 5 | | OCT. . | 3 10 20 | 3 3 27 |
| | NOV. . | 5 7 55 | 5 6 10 | | NOV. . | 1 23 4 | 1 14 38 |
| | DEC. . | 4 20 39 | 5 1 42 | | DEC. . | { 1 11 48 31 0 32 | 1 3 24 30 17 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1502. D. April. <i>d. h. m.</i> 4 7 11 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1499. G. April. <i>d. h. m.</i> 4 0 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 29 13 16 | 29 9 12 | | JAN. . | 26 4 26 | 26 7 49 |
| | FEB. . | 28 2 0 | 28 1 31 | | FEB. . | 24 17 10 | 24 16 50 |
| | MAR. . | 29 14 44 | 29 17 55 | | MAR. . | 26 5 55 | 26 1 38 |
| | APRIL | 28 3 28 | 28 9 32 | | APRIL | 24 18 39 | 24 10 46 |
| | MAY . | 27 16 12 | 27 23 43 | | MAY . | 24 7 23 | 23 21 26 |
| | JUNE . | 26 4 56 | 26 12 13 | | JUNE . | 22 20 7 | 22 10 13 |
| | JULY . | 25 17 40 | 25 23 15 | | JULY . | 22 8 51 | 22 1 17 |
| | AUG. . | 24 6 24 | 24 9 28 | | AUG. . | 20 21 35 | 20 18 11 |
| | SEPT. . | 22 19 8 | 22 19 29 | | SEPT. . | 19 10 19 | 19 11 55 |
| | OCT. . | 22 7 52 | 22 5 49 | | OCT. . | 18 23 3 | 19 5 24 |
| | NOV. . | 20 20 36 | 20 16 43 | | NOV. . | 17 11 47 | 17 21 32 |
| | DEC. . | 20 9 21 | 20 4 10 | | DEC. . | 17 0 31 | 17 11 42 |
| 1501. C.B. 3 13 0 | JAN. . | 18 22 6 | 18 16 21 | 1498. F. 4 6 26 | JAN. . | 15 13 15 | 15 23 36 |
| | FEB. . | 17 10 50 | 17 5 19 | | FEB. . | 14 1 59 | 14 9 26 |
| | MAR. . | 17 23 31 | 17 19 17 | | MAR. . | 15 14 44 | 15 17 42 |
| | APRIL | 16 12 18 | 16 10 8 | | APRIL | 14 3 28 | 14 1 9 |
| | MAY . | 16 1 2 | 16 1 31 | | MAY . | 13 16 12 | 13 8 48 |
| | JUNE . | 14 13 46 | 14 16 46 | | JUNE . | 12 4 56 | 11 17 42 |
| | JULY . | 14 2 30 | 14 7 19 | | JULY . | 11 17 40 | 11 4 51 |
| | AUG. . | 12 15 14 | 12 20 51 | | AUG. . | 10 6 24 | 9 18 49 |
| | SEPT. . | 11 3 58 | 11 9 23 | | SEPT. . | 8 19 8 | 8 11 38 |
| | OCT. . | 10 16 42 | 10 21 11 | | OCT. . | 8 7 52 | 8 6 8 |
| | NOV. . | 9 5 26 | 9 8 28 | | NOV. . | 6 20 36 | 7 1 12 |
| | DEC. . | 8 18 10 | 8 19 21 | | DEC. . | 6 9 20 | 6 19 15 |
| 1500. A. 3 18 49 | JAN. . | 7 6 54 | 7 5 53 | 1497. E.D. 3 12 15 | JAN. . | 4 22 4 | 5 11 0 |
| | FEB. . | 5 19 38 | 5 16 13 | | FEB. . | 3 10 48 | 3 23 57 |
| | MAR. . | 7 8 22 | 7 2 49 | | MAR. . | 3 23 32 | 4 10 9 |
| | APRIL | 5 21 6 | 5 14 14 | | APRIL | 2 12 16 | 2 18 15 |
| | MAY . | 5 9 50 | 5 3 3 | | MAY . | 2 1 0 | 2 1 11 |
| | JUNE . | 3 22 34 | 3 17 22 | | MAY . | 31 13 44 | 31 7 59 |
| | JULY . | 3 11 18 | 3 8 56 | | JUNE . | 30 2 28 | 29 15 46 |
| | AUG. . | 2 0 2 | 2 1 3 | | JULY . | 29 15 12 | 29 1 35 |
| | AUG. . | 31 12 46 | 31 17 0 | | AUG. . | 28 3 56 | 27 14 18 |
| | SEPT. . | 30 1 30 | 30 8 7 | | SEPT. . | 26 16 40 | 26 6 4 |
| | OCT. . | 29 14 14 | 29 22 4 | | OCT. . | 26 5 24 | 26 0 24 |
| | NOV. . | 28 2 58 | 28 10 38 | | NOV. . | 24 18 8 | 24 19 57 |
| | DEC. . | 27 15 42 | 27 21 51 | | DEC. . | 24 6 52 | 24 15 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1496. c. April. d. h. m. 3 18 4 | | d. h. m. | d. h. m. | B.C. 1493. G.F. April. d. h. m. 3 11 30 | | d. h. m. | d. h. m. |
| | JAN. . | 22 19 36 | 23 8 11 | | JAN. . | 20 10 46 | 20 5 15 |
| | FEB. . | 21 8 21 | 21 22 23 | | FEB. . | 18 23 30 | 18 20 59 |
| | MAR. . | 22 21 5 | 23 9 30 | | MAR. . | 19 12 15 | 19 13 12 |
| | APRIL | 21 9 49 | 21 18 8 | | APRIL | 18 0 59 | 18 5 10 |
| | MAY . | 20 22 33 | 21 1 15 | | MAY . | 17 13 43 | 17 20 8 |
| | JUNE . | 19 11 17 | 19 7 57 | | JUNE . | 16 2 27 | 16 9 36 |
| | JULY . | 19 0 1 | 18 15 21 | | JULY . | 15 15 11 | 15 21 34 |
| | AUG. . | 17 12 45 | 17 0 26 | | AUG. . | 14 3 55 | 14 8 22 |
| | SEPT. . | 16 1 29 | 15 12 1 | | SEPT. . | 12 16 39 | 12 18 40 |
| | OCT. . | 15 14 13 | 15 2 23 | | OCT. . | 12 5 23 | 12 5 1 |
| | NOV. . | 14 2 57 | 13 19 34 | | NOV. . | 10 18 7 | 10 15 41 |
| | DEC. . | 13 15 41 | 13 14 23 | | DEC. . | 10 6 51 | 10 2 40 |
| 1495. B. 3 23 53 | JAN. . | 12 4 25 | 12 9 27 | 1492. E. 3 17 19 | JAN. . | 8 19 35 | 8 14 24 |
| | FEB. . | 10 17 9 | 11 3 14 | | FEB. . | 7 8 19 | 7 2 30 |
| | MAR.. | 12 5 54 | 12 18 35 | | MAR.. | 8 21 4 | 8 15 50 |
| | APRIL | 10 18 33 | 11 7 2 | | APRIL | 7 9 43 | 7 6 0 |
| | MAY . | 10 7 22 | 10 16 52 | | MAY . | 6 22 32 | 6 21 1 |
| | JUNE . | 8 20 6 | 9 0 56 | | JUNE . | 5 11 16 | 5 12 26 |
| | JULY . | 8 8 50 | 8 8 19 | | JULY . | 5 0 0 | 5 3 32 |
| | AUG. . | 6 21 34 | 6 16 1 | | AUG. . | 3 12 44 | 3 17 51 |
| | SEPT. . | 5 10 18 | 5 0 59 | | SEPT. . | 2 1 23 | 2 7 11 |
| | OCT. . | 4 23 2 | 4 11 50 | | OCT. . | 1 14 12 | 1 19 36 |
| | NOV. . | 3 11 46 | 3 0 56 | | | 31 2 56 | 31 7 19 |
| | DEC. . | 3 0 30 | 2 16 15 | | NOV. . | 29 15 40 | 29 13 27 |
| 1494. A. 4 5 42 | JAN. . | 1 13 14 | 1 9 16 | 1491. D. 3 23 8 | JAN. . | 27 17 8 | 27 15 16 |
| | FEB. . | 31 1 58 | 31 3 7 | | FEB. . | 26 5 52 | 26 1 23 |
| | MAR.. | 1 14 42 | 1 20 37 | | MAR.. | 27 18 36 | 27 12 2 |
| | APRIL | 31 3 26 | 31 12 39 | | APRIL | 26 7 20 | 25 23 53 |
| | MAY . | 29 16 10 | 30 2 32 | | MAY . | 25 20 4 | 25 13 18 |
| | JUNE . | 29 4 54 | 29 14 5 | | JUNE . | 24 8 48 | 24 4 18 |
| | JULY . | 27 17 38 | 27 23 50 | | JULY . | 23 21 32 | 23 20 22 |
| | AUG. . | 27 6 22 | 27 8 36 | | AUG. . | 22 10 16 | 22 12 46 |
| | SEPT. . | 25 19 6 | 25 17 17 | | SEPT. . | 20 23 0 | 21 4 40 |
| | OCT. . | 24 7 50 | 24 2 41 | | OCT. . | 20 11 44 | 20 19 29 |
| | NOV. . | 23 20 34 | 23 13 16 | | NOV. . | 19 0 23 | 19 8 55 |
| | DEC. . | 22 9 18 | 22 1 13 | | DEC. . | 18 13 12 | 18 20 30 |
| | | 21 22 2 | 21 14 35 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1490. c. April. <i>d. h. m.</i> 4 4 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1487. F. April. <i>d. h. m.</i> 3 22 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 1 56 | 17 7 17 | | JAN. . | 13 17 6 | 14 3 51 |
| | FEB. . | 15 14 40 | 15 16 31 | | FEB. . | 12 5 50 | 12 19 30 |
| | MAR. . | 17 3 25 | 17 1 5 | | MAR. . | 13 18 35 | 14 8 4 |
| | APRIL | 15 16 9 | 15 9 42 | | APRIL | 12 7 19 | 12 17 47 |
| | MAY . | 15 4 53 | 14 19 23 | | MAY . | 11 20 3 | 12 1 31 |
| | JUNE . | 13 17 37 | 13 6 57 | | JUNE . | 10 8 47 | 10 8 19 |
| | JULY . | 13 6 21 | 12 20 53 | | JULY . | 9 21 31 | 9 15 21 |
| | AUG. . | 11 19 5 | 11 13 5 | | AUG. . | 8 10 15 | 7 23 34 |
| | SEPT. . | 10 7 49 | 10 6 44 | | SEPT. . | 6 22 59 | 6 9 57 |
| | OCT. . | 9 20 33 | 10 0 44 | | OCT. . | 6 11 43 | 5 23 1 |
| | NOV. . | 8 9 17 | 8 17 52 | | NOV. . | 5 0 27 | 4 14 51 |
| | DEC. . | 7 22 1 | 8 9 11 | | DEC. . | 4 13 11 | 4 8 53 |
| 1489. B.A. | JAN. . | 6 10 45 | 6 22 12 | 1486. E. | JAN. . | 3 1 55 | 3 3 52 |
| | FEB. . | 4 23 29 | 5 8 54 | | FEB. . | 1 14 39 | 1 22 19 |
| | MAR. . | 5 12 13 | 5 17 42 | | MAR. . | 3 3 23 | 3 14 52 |
| 3 10 46 | APRIL | 4 0 57 | 4 1 16 | 4 4 12 | APRIL | 1 16 7 | 2 4 43 |
| | MAY . | 3 13 41 | 3 8 33 | | MAY . | { 1 4 51 | 1 15 47 |
| | JUNE . | 2 2 25 | 1 16 36 | | | { 30 17 35 | 31 0 41 |
| | JULY . | { 1 15 9 | 1 2 30 | | JUNE . | 29 6 19 | 29 8 24 |
| | | { 31 3 53 | 30 15 3 | | JULY . | 28 19 3 | 28 15 58 |
| | AUG. . | 29 16 37 | 29 6 34 | | AUG. . | 27 7 47 | 27 0 24 |
| | SEPT. . | 23 5 21 | 28 0 30 | | SEPT. . | 25 20 31 | 25 10 23 |
| | OCT. . | 27 18 5 | 27 19 40 | | OCT. . | 25 9 15 | 24 22 23 |
| | NOV. . | 26 6 49 | 26 14 31 | | NOV. . | 23 21 59 | 23 12 33 |
| | DEC. . | 25 19 33 | 26 7 33 | | DEC. . | 23 10 43 | 23 4 38 |
| 1488. G. | JAN. . | 24 8 17 | 24 21 53 | 1485. D.C. | JAN. . | 21 23 27 | 21 21 59 |
| | FEB. . | 22 21 1 | 23 9 19 | | FEB. . | 20 12 11 | 20 15 33 |
| | MAR. . | 24 9 46 | 24 13 16 | | MAR. . | 21 0 56 | 21 8 18 |
| 3 16 35 | APRIL | 22 22 30 | 23 1 34 | 3 10 1 | APRIL | 19 13 40 | 19 23 15 |
| | MAY . | 22 11 14 | 22 8 14 | | MAY . | 19 2 24 | 19 12 0 |
| | JUNE . | 20 23 58 | 20 15 24 | | JUNE . | 17 15 8 | 17 22 43 |
| | JULY . | 20 12 42 | 20 0 7 | | JULY . | 17 3 52 | 17 8 4 |
| | AUG. . | 19 1 26 | 18 11 23 | | AUG. . | 15 16 36 | 15 16 55 |
| | SEPT. . | 17 14 10 | 17 1 43 | | SEPT. . | 14 5 20 | 14 2 7 |
| | OCT. . | 17 2 54 | 16 18 57 | | OCT. . | 13 18 4 | 13 12 13 |
| | NOV. . | 15 15 38 | 15 14 8 | | NOV. . | 12 6 48 | 11 23 30 |
| | DEC. . | 15 4 22 | 15 9 39 | | DEC. . | 11 19 32 | 11 12 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1484. B. April. <i>d. h. m.</i> 3 15 50 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1481. F.E. April. <i>d. h. m.</i> 3 9 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 8 16 | 10 1 52 | | JAN. . | 7 23 26 | 8 6 34 |
| | FEB. . | 8 21 0 | 8 16 48 | | FEB. . | 6 12 10 | 6 16 12 |
| | MAR. . | 10 9 45 | 10 8 35 | | MAR. . | 7 0 55 | 7 0 50 |
| | APRIL . | 8 22 29 | 9 0 35 | | APRIL . | 5 13 39 | 5 9 5 |
| | MAY . | 8 11 13 | 8 16 4 | | MAY . | 5 2 23 | 4 17 55 |
| | JUNE . | 6 23 57 | 7 6 25 | | JUNE . | 3 15 7 | 3 4 23 |
| | JULY . | 6 12 41 | 6 19 18 | | JULY . | 3 3 51 | 2 17 2 |
| | AUG. . | 5 1 25 | 5 6 52 | | AUG. . | { 1 16 35 31 5 19 | { 1 8 13 31 1 26 |
| | SEPT. . | 3 14 9 | 3 17 39 | | SEPT. . | 29 18 3 | 29 19 39 |
| | OCT. . | 3 2 53 | 3 4 9 | | OCT. . | 29 6 47 | 29 13 34 |
| | NOV. . | 1 15 37 | 1 14 47 | | NOV. . | 27 19 31 | 28 6 1 |
| | DEC. . | { 1 4 21 30 17 5 | { 1 1 41 30 12 53 | | DEC. . | 27 8 15 | 27 20 15 |
| 1483. A. 3 21 39 | JAN. . | 29 5 49 | 29 0 31 | 1480. D. 3 15 5 | JAN. . | 25 20 59 | 26 8 1 |
| | FEB. . | 27 18 33 | 27 12 53 | | FEB. . | 24 9 43 | 24 17 33 |
| | MAR. . | 29 7 17 | 29 2 15 | | MAR. . | 25 22 27 | 26 1 28 |
| | APRIL . | 27 20 1 | 27 16 41 | | APRIL . | 24 11 11 | 24 8 38 |
| | MAY . | 27 8 45 | 27 7 54 | | MAY . | 23 23 55 | 23 16 4 |
| | JUNE . | 25 21 29 | 25 23 20 | | JUNE . | 22 12 39 | 22 0 51 |
| | JULY . | 25 10 13 | 25 14 20 | | JULY . | 22 1 23 | 21 12 2 |
| | AUG. . | 23 22 57 | 24 4 28 | | AUG. . | 20 14 7 | 20 2 8 |
| | SEPT. . | 22 11 41 | 22 17 37 | | SEPT. . | 19 2 51 | 18 19 4 |
| | OCT. . | 22 0 25 | 22 5 53 | | OCT. . | 18 15 35 | 18 13 57 |
| | NOV. . | 20 13 9 | 20 17 25 | | NOV. . | 17 4 19 | 17 9 15 |
| | DEC. . | 20 1 53 | 20 4 16 | | DEC. . | 16 17 3 | 17 3 25 |
| 1482. G. 4 3 23 | JAN. . | 18 14 37 | 18 14 28 | 1479. C. 3 20 54 | JAN. . | 15 5 47 | 15 19 10 |
| | FEB. . | 17 3 21 | 17 0 19 | | FEB. . | 13 18 31 | 14 7 57 |
| | MAR. . | 18 16 6 | 18 10 22 | | MAR. . | 15 7 16 | 15 17 57 |
| | APRIL . | 17 4 50 | 16 21 17 | | APRIL . | 13 20 0 | 14 1 51 |
| | MAY . | 16 17 34 | 16 9 43 | | MAY . | 13 8 44 | 13 8 39 |
| | JUNE . | 15 6 18 | 14 23 54 | | JUNE . | 11 21 28 | 11 15 24 |
| | JULY . | 14 19 2 | 14 15 37 | | JULY . | 11 10 12 | 10 23 15 |
| | AUG. . | 13 7 46 | 13 8 9 | | AUG. . | 9 22 56 | 9 9 14 |
| | SEPT. . | 11 20 30 | 12 0 39 | | SEPT. . | 8 11 40 | 7 22 5 |
| | OCT. . | 11 9 14 | 11 16 22 | | OCT. . | 8 0 24 | 7 14 0 |
| | NOV. . | 9 21 58 | 10 6 43 | | NOV. . | 6 13 8 | 6 8 23 |
| | DEC. . | 9 10 42 | 9 19 29 | | DEC. . | 6 1 52 | 6 3 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1478. | JAN. . | 4 14 36 | 4 22 56 | B.C. 1475. | JAN. . | { 1 5 46 | ... |
| B. | FEB. . | 3 3 21 | 3 15 55 | E. | FEB. . | { 30 18 30 | 30 13 7 |
| April. <i>d. h. m.</i> | MAR. . | 4 16 5 | 5 5 56 | | MAR. . | { 1 7 14 | 1 4 14 |
| 4 2 43 | APRIL | 3 4 49 | 3 16 57 | April. <i>d. h. m.</i> | APRIL | { 30 19 58 | 30 19 57 |
| | MAY . | 2 17 33 | 3 1 31 | 3 20 9 | MAY . | 29 8 42 | 23 11 40 |
| | JUNE . | { 1 6 17 | 1 8 42 | | JUNE . | 28 21 26 | 29 2 40 |
| | | { 30 19 1 | 30 15 32 | | JULY . | 27 10 10 | 27 16 28 |
| | JULY . | 30 7 45 | 29 23 10 | | AUG. . | 26 22 54 | 27 4 55 |
| | AUG. . | 28 20 29 | 28 8 29 | | SEPT. . | 25 11 38 | 25 16 18 |
| | SEPT. . | 27 9 13 | 26 20 15 | | OCT. . | 24 0 22 | 24 3 8 |
| | OCT. . | 26 21 57 | 26 10 45 | | NOV. . | 23 13 6 | 23 13 52 |
| | NOV. . | 25 10 41 | 25 3 44 | | DEC. . | 22 1 50 | 22 0 40 |
| | DEC. . | 24 23 25 | 24 22 17 | | | 21 14 34 | 21 11 37 |
| 1477. | JAN. . | 23 12 9 | 23 17 1 | 1474. | JAN. . | 20 3 18 | 19 22 48 |
| A.G. | FEB. . | 22 0 53 | 22 10 31 | D. | FEB. . | 18 16 2 | 18 10 29 |
| | MAR. . | 22 13 37 | 23 1 41 | | MAR. . | 20 4 47 | 19 23 2 |
| 3 8 32 | APRIL | 21 2 21 | 21 14 6 | 4 1 58 | APRIL | 18 17 31 | 18 12 43 |
| | MAY . | 20 15 5 | 21 0 2 | | MAY . | 18 6 15 | 18 3 28 |
| | JUNE . | 19 3 49 | 19 8 19 | | JUNE . | 16 18 59 | 16 18 55 |
| | JULY . | 18 16 33 | 18 16 1 | | JULY . | 16 7 43 | 16 10 22 |
| | AUG. . | 17 5 17 | 17 0 5 | | AUG. . | 14 20 27 | 15 1 13 |
| | SEPT. . | 15 18 1 | 15 9 23 | | SEPT. . | 13 9 11 | 13 15 10 |
| | OCT. . | 15 6 45 | 14 20 26 | | OCT. . | 12 21 55 | 13 4 8 |
| | NOV. . | 13 19 29 | 13 9 31 | | NOV. . | 11 10 39 | 11 16 11 |
| | DEC. . | 13 8 13 | 13 0 32 | | DEC. . | 10 23 23 | 11 3 22 |
| 1476. | JAN. . | 11 20 57 | 11 17 7 | 1473. | JAN. . | 9 12 7 | 9 13 46 |
| F. | FEB. . | 10 9 41 | 10 10 28 | C.B. | FEB. . | 8 0 51 | 7 23 33 |
| | MAR. . | 11 22 26 | 12 3 34 | | MAR. . | 8 13 36 | 8 9 10 |
| 3 14 21 | APRIL | 10 11 10 | 10 19 24 | 3 7 47 | APRIL | 7 2 20 | 6 19 18 |
| | MAY . | 9 23 54 | 10 9 18 | | MAY . | 6 15 4 | 6 6 42 |
| | JUNE . | 8 12 38 | 8 21 6 | | JUNE . | 5 3 48 | 4 19 55 |
| | JULY . | 8 1 22 | 8 7 13 | | JULY . | 4 16 32 | 4 10 56 |
| | AUG. . | 6 14 6 | 6 16 26 | | AUG. . | 3 5 16 | 3 3 19 |
| | SEPT. . | 5 2 50 | 5 1 36 | | SEPT. . | 1 18 0 | 1 20 11 |
| | OCT. . | 4 15 34 | 4 11 23 | | OCT. . | { 1 6 44 | 1 12 40 |
| | NOV. . | 3 4 13 | 2 22 8 | | | { 30 19 28 | 31 3 59 |
| | DEC. . | 2 17 2 | { 2 10 0 | | NOV. . | 29 8 12 | 29 17 41 |
| | | | { 31 22 59 | | DEC. . | 28 20 56 | 29 5 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1472. A. April. <i>d. h. m.</i> 3 13 36 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1469. E.D. April. <i>d. h. m.</i> 3 7 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 9 40 | 27 15 48 | | JAN. . | 25 0 50 | 25 11 35 |
| | FEB. . | 25 22 24 | 26 0 39 | | FEB. . | 23 13 34 | 24 8 3 |
| | MAR. . | 27 11 8 | 27 8 46 | | MAR. . | 24 2 18 | 24 15 29 |
| | APRIL | 25 23 52 | 25 17 0 | | APRIL | 22 15 2 | 23 1 9 |
| | MAY . | 25 12 36 | 25 2 23 | | MAY . | 22 3 46 | 22 8 53 |
| | JUNE . | 24 1 20 | 23 13 49 | | JUNE . | 20 16 30 | 20 15 50 |
| | JULY . | 23 14 4 | 23 3 48 | | JULY . | 20 5 14 | 19 23 4 |
| | AUG. . | 22 2 48 | 21 20 12 | | AUG. . | 18 17 58 | 18 7 34 |
| | SEPT. . | 20 15 32 | 20 14 15 | | SEPT. . | 17 6 42 | 16 18 10 |
| | OCT. . | 20 4 16 | 20 8 41 | | OCT. . | 16 19 26 | 16 7 19 |
| | NOV. . | 18 17 0 | 19 2 11 | | NOV. . | 15 8 10 | 14 23 6 |
| | DEC. . | 18 5 44 | 18 17 40 | | DEC. . | 14 20 54 | 14 16 53 |
| 1471. G. 3 19 25 | JAN. . | 16 18 28 | 17 6 37 | 1468. C. 3 12 51 | JAN. . | 13 9 38 | 13 11 32 |
| | FEB. . | 15 7 12 | 15 17 6 | | FEB. . | 11 22 22 | 12 5 38 |
| | MAR. . | 16 19 57 | 17 1 36 | | MAR. . | 13 11 7 | 13 21 58 |
| | APRIL | 15 8 41 | 15 8 53 | | APRIL | 11 23 51 | 12 11 44 |
| | MAY . | 14 21 25 | 14 15 56 | | MAY . | 11 12 35 | 11 22 58 |
| | JUNE . | 13 10 9 | 12 23 51 | | JUNE . | 10 1 19 | 10 7 58 |
| | JULY . | 12 22 53 | 12 9 44 | | JULY . | 9 14 3 | 9 15 59 |
| | AUG. . | 11 11 37 | 10 22 24 | | AUG. . | 8 2 47 | 7 23 58 |
| | SEPT. . | 10 0 21 | 9 14 4 | | SEPT. . | 6 15 31 | 6 8 44 |
| | OCT. . | 9 13 5 | 9 8 13 | | OCT. . | 6 4 15 | 5 19 0 |
| | NOV. . | 8 1 49 | 8 3 37 | | NOV. . | 4 16 59 | 4 7 3 |
| | DEC. . | 7 14 33 | 7 22 38 | | DEC. . | 4 5 43 | 3 21 2 |
| 1470. F. 4 1 14 | JAN. . | 6 3 17 | 6 15 41 | 1467. B. 3 18 40 | JAN. . | 2 18 27 | 2 12 43 |
| | FEB. . | 4 16 1 | 5 5 55 | | FEB. . | 1 7 11 | 1 5 31 |
| | MAR. . | 6 4 46 | 6 17 10 | | MAR. . | 2 19 56 | 2 22 39 |
| | APRIL | 4 17 30 | 5 1 55 | | APRIL | { 1 8 40 30 21 24 | 1 15 4 |
| | MAY . | 4 6 14 | 4 9 4 | | MAY . | 30 10 8 | { 1 5 57 30 18 50 |
| | JUNE . | 2 18 58 | 2 15 41 | | JUNE . | 28 22 52 | 29 5 56 |
| | JULY . | { 2 7 42 31 20 26 | 1 22 53 31 7 46 | | JULY . | 28 11 36 | 28 15 44 |
| | AUG. . | 30 9 10 | 29 19 11 | | AUG. . | 27 0 20 | 27 1 6 |
| | SEPT. . | 28 21 54 | 28 9 39 | | SEPT. . | 25 13 4 | 25 10 42 |
| | OCT. . | 23 10 38 | 23 2 57 | | OCT. . | 23 1 43 | 24 21 5 |
| | NOV. . | 26 23 22 | 26 22 6 | | NOV. . | 23 14 32 | 23 8 22 |
| | DEC. . | 26 12 6 | 26 17 32 | | DEC. . | 23 3 16 | 22 20 38 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|-----------------------------|---------|----------------------|----------------------|-----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1466. | JAN. . | 21 16 0 | 21 9 57 | B.C. 1463. | JAN. . | 18 7 10 | 18 15 10 |
| A. | FEB. . | 20 4 44 | 20 0 17 | D. | FEB. . | 16 19 54 | 17 0 29 |
| April. | MAR. . | 21 17 28 | 21 15 29 | April. | MAR. . | 18 8 38 | 18 8 40 |
| <i>d. h. m.</i> | APRIL | 20 6 12 | 20 7 8 | <i>d. h. m.</i> | APRIL | 16 21 22 | 16 16 31 |
| 4 0 29 | MAY . | 19 18 56 | 19 22 33 | 3 17 55 | MAY . | 16 10 6 | 16 1 3 |
| | JUNE . | 18 7 40 | 18 13 7 | | JUNE . | 14 22 50 | 14 11 16 |
| | JULY . | 17 20 24 | 18 2 26 | | JULY . | 14 11 34 | 13 23 57 |
| | AUG. . | 16 9 8 | 16 14 35 | | AUG. . | 13 0 18 | 12 15 17 |
| | SEPT. . | 14 21 52 | 15 1 56 | | SEPT. . | 11 13 2 | 11 8 49 |
| | OCT. . | 14 10 36 | 14 12 53 | | OCT. . | 11 1 46 | 11 3 26 |
| | NOV. . | 12 23 20 | 12 23 43 | | NOV. . | 9 14 30 | 9 21 44 |
| | DEC. . | 12 12 4 | 12 10 34 | | DEC. . | 9 3 14 | 9 14 25 |
| 1465. | JAN. . | 11 0 48 | 10 21 27 | 1462. | JAN. . | 7 15 53 | 8 4 40 |
| G.F. | FEB. . | 9 13 32 | 9 8 35 | C. | FEB. . | 6 4 42 | 6 16 16 |
| | MAR. . | 10 2 17 | 9 20 21 | | MAR. . | 7 17 27 | 8 1 32 |
| 3 6 18 | APRIL | 8 15 1 | 8 9 10 | 3 23 44 | APRIL | 6 6 11 | 6 9 11 |
| | MAY . | 8 3 45 | 7 23 15 | | MAY . | 5 18 55 | 5 16 5 |
| | JUNE . | 6 16 29 | 6 14 23 | | JUNE . | 4 7 39 | 3 23 23 |
| | JULY . | 6 5 13 | 6 6 0 | | JULY . | 3 20 23 | 3 8 9 |
| | AUG. . | 4 17 57 | 4 21 28 | | AUG. . | 2 9 7 | 1 19 23 |
| | SEPT. . | 3 6 41 | 3 12 13 | | | 31 21 51 | 31 9 33 |
| | OCT. . | 2 19 25 | 3 1 57 | | SEPT. . | 30 10 35 | 30 2 46 |
| | NOV. . | 1 8 9 | 1 14 40 | | OCT. . | 29 23 19 | 29 21 51 |
| | | 30 20 53 | | | NOV. . | 28 12 3 | 28 17 21 |
| | DEC. . | 30 9 37 | 1 2 20 | | DEC. . | 28 0 47 | 28 11 31 |
| | | | 30 13 4 | | | | |
| 1464. | JAN. . | 23 22 21 | 23 22 56 | 1461. | JAN. . | 26 13 31 | 27 3 10 |
| E. | FEB. . | 27 11 5 | 27 8 19 | B.A. | FEB. . | 25 2 15 | 25 15 43 |
| | MAR. . | 28 23 50 | 28 17 51 | | MAR. . | 25 14 59 | 26 1 36 |
| 3 12 7 | APRIL | 27 12 34 | 27 4 17 | 3 5 33 | APRIL | 24 3 43 | 24 9 21 |
| | MAY . | 27 1 18 | 26 16 25 | | MAY . | 23 16 27 | 23 16 4 |
| | JUNE . | 25 14 2 | 25 6 32 | | JUNE . | 22 5 11 | 21 22 52 |
| | JULY . | 25 2 46 | 24 22 25 | | JULY . | 21 17 55 | 21 6 52 |
| | AUG. . | 23 15 30 | 23 15 22 | | AUG. . | 20 6 39 | 19 17 1 |
| | SEPT. . | 22 4 14 | 22 8 26 | | SEPT. . | 18 19 23 | 18 6 0 |
| | OCT. . | 21 16 58 | 22 0 39 | | OCT. . | 18 8 7 | 17 22 0 |
| | NOV. . | 20 5 42 | 20 15 23 | | NOV. . | 16 20 51 | 16 16 23 |
| | DEC. . | 19 18 26 | 20 4 14 | | DEC. . | 16 9 35 | 16 11 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1460. | JAN. . | 14 22 19 | 15 6 39 | 1457. | JAN. . | 12 13 29 | 12 7 18 |
| G. | FEB. . | 13 11 3 | 13 23 26 | D.C. | FEB. . | 11 2 13 | 10 20 50 |
| April. | MAR. . | 14 23 48 | 15 13 19 | April. | MAR. . | 11 14 58 | 11 11 21 |
| <i>d. h. m.</i> | APRIL | 13 12 32 | 14 0 15 | <i>d. h. m.</i> | APRIL | 10 3 42 | 10 2 37 |
| 3 11 22 | MAY . | 13 1 16 | 13 8 50 | 3 4 48 | MAY . | 9 16 26 | 9 18 8 |
| | JUNE . | 11 14 0 | 11 16 7 | | JUNE . | 8 5 10 | 8 9 14 |
| | JULY . | 11 2 44 | 10 23 11 | | JULY . | 7 17 54 | 7 23 24 |
| | AUG. . | 9 15 28 | 9 7 5 | | AUG. . | 6 6 38 | 6 12 23 |
| | SEPT. . | 8 4 12 | 7 16 42 | | SEPT. . | 4 19 22 | 5 0 23 |
| | OCT. . | 7 16 56 | 7 4 38 | | OCT. . | 4 8 6 | 4 11 45 |
| | NOV. . | 6 5 40 | 5 19 7 | | NOV. . | 2 20 50 | 2 22 46 |
| | DEC. . | 5 18 24 | 5 11 53 | | DEC. . | { 2 9 34 31 22 18 | { 2 9 38 31 20 23 |
| 1459. | JAN. . | 4 7 8 | 4 6 4 | 1456. | JAN. . | 30 11 2 | 30 7 6 |
| F. | FEB. . | 2 19 52 | 3 0 26 | B. | FEB. . | 28 23 47 | 23 18 13 |
| | MAR. . | 4 8 37 | 4 17 38 | | MAR. . | 30 12 31 | 30 6 10 |
| 3 17 11 | APRIL | 2 21 21 | 3 8 40 | 3 10 37 | APRIL | 29 1 15 | 23 19 24 |
| | MAY . | { 2 10 5 31 22 49 | 2 21 6 | | MAY . | 28 13 59 | 23 9 57 |
| | JUNE . | 30 11 33 | { 1 7 13 30 15 43 | | JUNE . | 27 2 43 | 27 1 27 |
| | JULY . | 30 0 17 | 29 23 51 | | JULY . | 26 15 27 | 26 17 17 |
| | AUG. . | 28 13 1 | 28 8 20 | | AUG. . | 25 4 11 | 25 8 43 |
| | SEPT. . | 27 1 45 | 26 17 57 | | SEPT. . | 23 16 55 | 23 23 17 |
| | OCT. . | 26 14 29 | 26 5 9 | | OCT. . | 23 5 39 | 23 12 45 |
| | NOV. . | 25 3 13 | 24 18 8 | | NOV. . | 21 18 23 | 22 1 4 |
| | DEC. . | 24 15 57 | 24 8 50 | | DEC. . | 21 7 7 | 21 12 15 |
| 1458. | JAN. . | 23 4 41 | 23 0 53 | 1455. | JAN. . | 19 19 51 | 19 22 23 |
| E. | FEB. . | 21 17 25 | 21 17 42 | A. | FEB. . | 18 8 35 | 18 7 44 |
| | MAR. . | 23 6 9 | 23 10 22 | | MAR. . | 19 21 19 | 19 16 49 |
| 3 23 0 | APRIL | 21 18 53 | 22 2 3 | 3 16 26 | APRIL | 18 10 3 | 18 2 23 |
| | MAY . | 21 7 37 | 21 16 0 | | MAY . | 17 22 47 | 17 13 30 |
| | JUNE . | 19 20 21 | 20 4 6 | | JUNE . | 16 11 31 | 16 2 32 |
| | JULY . | 19 9 5 | 19 14 40 | | JULY . | 16 0 15 | 15 17 39 |
| | AUG. . | 17 21 49 | 18 0 24 | | AUG. . | 14 12 59 | 14 10 21 |
| | SEPT. . | 16 10 33 | 16 10 4 | | SEPT. . | 13 1 43 | 13 3 43 |
| | OCT. . | 15 23 17 | 15 20 11 | | OCT. . | 12 14 27 | 12 20 44 |
| | NOV. . | 14 12 1 | 14 7 2 | | NOV. . | 11 3 11 | 11 12 29 |
| | DEC. . | 14 0 45 | 13 18 44 | | DEC. . | 10 15 55 | 11 2 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean .. New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|-------------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1454. G. April. <i>d. h. m.</i> 3 22 15 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1451. C. April. <i>d. h. m.</i> 3 15 41 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 9 4 39 | 9 14 13 | | JAN. . | 5 19 49 | 6 1 16 |
| | FEB. . | 7 17 23 | 8 0 9 | | FEB. . | 4 8 23 | 4 18 58 |
| | MAR. . | 9 6 8 | 9 8 39 | | MAR. . | 5 21 18 | 6 10 27 |
| | APRIL | 7 18 52 | 7 16 22 | | APRIL | 4 10 2 | 4 22 46 |
| | MAY . | 7 7 36 | 7 0 16 | | MAY . | 3 22 46 | 4 8 25 |
| | JUNE . | 5 20 20 | 5 9 25 | | JUNE . | 2 11 30 | 2 16 16 |
| | JULY . | 5 9 4 | 4 20 46 | | JULY . | 2 0 14 | 1 23 25 |
| | AUG. . | 3 21 48 | 3 10 51 | | | 31 12 58 | 31 6 56 |
| | SEPT. . | 2 10 32 | 2 3 30 | | AUG. . | 30 1 42 | 29 15 44 |
| | | 1 23 16 | 1 21 56 | | SEPT. . | 28 14 26 | 28 2 33 |
| | OCT. . | 31 12 0 | 31 16 45 | | OCT. . | 28 3 10 | 27 15 47 |
| | NOV. . | 30 0 44 | 30 10 40 | | NOV. . | 26 15 54 | 26 7 24 |
| | DEC. . | 29 13 28 | 30 2 4 | | DEC. . | 26 4 38 | 26 0 51 |
| 1453. F.E. 3 4 4 | JAN. . | 23 2 12 | 23 14 55 | 1450. B. 3 21 30 | JAN. . | 24 17 22 | 24 19 4 |
| | FEB. . | 26 14 56 | 27 1 9 | | FEB. . | 23 6 6 | 23 12 49 |
| | MAR. . | 27 3 41 | 27 9 23 | | MAR. . | 24 18 51 | 25 4 56 |
| | APRIL | 25 16 25 | 25 16 24 | | APRIL | 23 7 35 | 23 18 39 |
| | MAY . | 25 5 9 | 24 23 18 | | MAY . | 22 20 19 | 23 5 56 |
| | JUNE . | 23 17 53 | 23 7 11 | | JUNE . | 21 9 3 | 21 15 19 |
| | JULY . | 23 6 37 | 22 17 6 | | JULY . | 20 21 47 | 20 23 41 |
| | AUG. . | 21 19 21 | 21 5 53 | | AUG. . | 19 10 31 | 19 8 4 |
| | SEPT. . | 20 8 5 | 19 21 44 | | SEPT. . | 17 23 15 | 17 17 13 |
| | OCT. . | 19 20 49 | 19 16 5 | | OCT. . | 17 11 59 | 17 3 43 |
| | NOV. . | 18 9 33 | 18 11 37 | | NOV. . | 16 0 43 | 15 15 47 |
| | DEC. . | 17 22 17 | 18 6 40 | | DEC. . | 15 13 27 | 15 5 31 |
| 1452. D. 3 9 53 | JAN. . | 16 11 1 | 16 23 42 | 1449. A.G. 3 3 19 | JAN. . | 14 2 11 | 13 20 42 |
| | FEB. . | 14 23 45 | 15 13 47 | | FEB. . | 12 14 55 | 12 12 56 |
| | MAR. . | 16 12 29 | 17 0 51 | | MAR. . | 13 3 39 | 13 5 35 |
| | APRIL | 15 1 13 | 15 9 25 | | APRIL | 11 16 23 | 11 21 42 |
| | MAY . | 14 13 57 | 14 16 30 | | MAY . | 11 5 7 | 11 12 34 |
| | JUNE . | 13 2 41 | 12 23 9 | | JUNE . | 9 17 51 | 10 1 42 |
| | JULY . | 12 15 25 | 12 6 28 | | JULY . | 9 6 35 | 9 13 11 |
| | AUG. . | 11 4 9 | 10 15 31 | | AUG. . | 7 19 19 | 7 23 30 |
| | SEPT. . | 9 16 53 | 9 3 8 | | SEPT. . | 6 8 3 | 6 9 21 |
| | OCT. . | 9 5 37 | 8 17 42 | | OCT. . | 5 20 47 | 5 19 24 |
| | NOV. . | 7 13 21 | 7 11 1 | | NOV. . | 4 9 31 | 4 5 58 |
| | DEC. . | 7 7 5 | 7 6 2 | | DEC. . | 3 22 15 | 3 17 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1448. F. April. <i>d. h. m.</i> 8 9 8 | JAN. . | { 2 10 59 | 2 5 10 | B.C. 1445. C.B. April. <i>d. h. m.</i> 3 2 35 | JAN. . | 29 14 53 | 29 23 37 |
| | FEB. . | { 31 23 43 | 31 17 55 | | FEB. . | 28 3 37 | 28 8 34 |
| | MAR. . | | ... | | MAR. . | 28 16 22 | 28 16 24 |
| | APRIL | 2 12 28 | { 2 7 39 | | APRIL | 27 5 6 | 26 23 56 |
| | | | { 31 22 19 | | MAY . | 26 17 50 | 26 8 13 |
| | APRIL | { 1 1 12 | 30 13 38 | | JUNE . | 25 6 34 | 24 18 18 |
| | MAY . | { 30 13 56 | 30 13 38 | | JULY . | 24 19 18 | 24 7 1 |
| | JUNE . | 30 2 40 | 30 5 0 | | AUG. . | 23 8 2 | 22 22 32 |
| | JULY . | 28 15 24 | 28 19 49 | | SEPT. . | 21 20 46 | 21 16 22 |
| | AUG. . | 28 4 8 | 28 9 40 | | OCT. . | 21 9 30 | 21 11 19 |
| | SEPT. . | 26 16 52 | 26 22 26 | | NOV. . | 19 22 14 | 20 5 55 |
| | OCT. . | 25 5 36 | 25 10 20 | | DEC. . | 19 10 58 | 19 22 45 |
| | NOV. . | 24 18 20 | 24 21 42 | | | | |
| 1447. E. 3 14 57 | DEC. . | 23 7 4 | 23 8 43 | 1444. A. 3 8 23 | JAN. . | 17 23 42 | 18 12 58 |
| | JAN. . | 22 19 48 | 22 19 26 | | FEB. . | 16 12 26 | 17 0 22 |
| | JAN. . | 21 8 32 | 21 5 57 | | MAR. . | 18 1 10 | 18 9 22 |
| | FEB. . | 19 21 16 | 19 16 32 | | APRIL | 16 13 54 | 16 16 45 |
| | MAR. . | 21 10 0 | 21 3 42 | | MAY . | 16 2 38 | 15 23 30 |
| | APRIL | 19 22 44 | 19 16 0 | | JUNE . | 14 15 22 | 14 6 43 |
| | MAY . | 19 11 23 | 19 5 46 | | JULY . | 14 4 6 | 13 15 32 |
| | JUNE . | 18 0 12 | 17 20 51 | | AUG. . | 12 16 50 | 12 2 51 |
| | JULY . | 17 12 56 | 17 12 45 | | SEPT. . | 11 5 34 | 10 17 16 |
| | AUG. . | 16 1 40 | 16 4 42 | | OCT. . | 10 13 18 | 10 10 34 |
| | SEPT. . | 14 14 24 | 14 20 3 | | NOV. . | 9 7 2 | 9 5 46 |
| | OCT. . | 14 3 8 | 14 10 22 | | DEC. . | 8 19 46 | 9 1 17 |
| | NOV. . | 12 15 52 | 12 23 26 | | | | |
| 1446. D. 3 20 46 | DEC. . | 12 4 36 | 12 11 14 | 1443. G. 3 14 12 | JAN. . | 7 8 30 | 7 19 27 |
| | JAN. . | 10 17 20 | 10 21 46 | | FEB. . | 5 21 14 | 6 11 1 |
| | FEB. . | 9 6 4 | 9 7 16 | | MAR. . | 7 9 59 | 7 23 30 |
| | MAR. . | 10 18 49 | 10 16 10 | | APRIL | 5 22 43 | 6 9 9 |
| | APRIL | 9 7 33 | 9 11 11 | | MAY . | 5 11 27 | 5 16 49 |
| | MAY . | 8 20 17 | 8 11 15 | | JUNE . | 4 0 11 | 3 23 33 |
| | JUNE . | 7 9 1 | 6 23 7 | | JULY . | 3 12 55 | 3 6 23 |
| | JULY . | 6 21 45 | 6 13 12 | | AUG. . | { 2 1 33 | 1 14 38 |
| | AUG. . | 5 10 29 | 5 5 19 | | | { 31 14 23 | 31 0 58 |
| | SEPT. . | 3 23 13 | 3 22 42 | | SEPT. . | 30 3 7 | 29 14 7 |
| | OCT. . | 3 11 57 | 3 16 17 | | OCT. . | 29 15 51 | 29 6 9 |
| | NOV. . | 2 0 41 | 2 8 59 | | NOV. . | 28 4 35 | 28 0 24 |
| | DEC. . | { 1 13 25 | 2 0 0 | | DEC. . | 27 17 19 | 27 19 38 |
| | | { 31 2 9 | 31 12 52 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1442. | JAN. . | 26 6 3 | 26 14 15 | 1439. | JAN. . | 22 21 13 | 22 15 33 |
| F. | FEB. . | 21 18 47 | 25 6 49 | B. | FEB. . | 21 9 57 | 21 4 28 |
| April. | MAR. . | 23 7 32 | 26 20 36 | April. | MAR. . | 22 22 42 | 22 18 23 |
| <i>d. h. m.</i> | APRIL | 24 20 16 | 25 7 29 | <i>d. h. m.</i> | APRIL | 21 11 26 | 21 9 13 |
| 3 20 1 | MAY . | 24 9 0 | 24 16 9 | 3 13 27 | MAY . | 21 0 10 | 21 0 35 |
| | JUNE . | 22 21 44 | 22 23 37 | | JUNE . | 19 12 54 | 19 15 50 |
| | JULY . | 22 10 28 | 22 6 58 | | JULY . | 19 1 38 | 19 6 24 |
| | AUG. . | 20 23 12 | 20 15 10 | | AUG. . | 17 14 22 | 17 19 58 |
| | SEPT. . | 19 11 56 | 19 1 4 | | SEPT. . | 16 8 6 | 16 8 34 |
| | OCT. . | 19 0 40 | 18 13 7 | | OCT. . | 15 15 50 | 15 20 24 |
| | NOV. . | 17 13 24 | 17 3 32 | | NOV. . | 14 4 34 | 14 7 43 |
| | DEC. . | 17 2 8 | 16 20 0 | | DEC. . | 13 17 18 | 13 18 35 |
| 1441. | JAN. . | 15 14 52 | 15 13 47 | 1438. | JAN. . | 12 6 2 | 12 5 2 |
| E.D. | FEB. . | 14 3 36 | 14 7 44 | A. | FEB. . | 10 13 46 | 10 15 17 |
| | MAR. . | 14 16 20 | 15 0 37 | | MAR. . | 12 7 30 | 12 1 43 |
| 3 1 50 | APRIL | 13 5 4 | 13 15 31 | 3 19 16 | APRIL | 10 20 14 | 10 13 13 |
| | MAY . | 12 17 48 | 13 4 1 | | MAY . | 10 8 53 | 10 2 1 |
| | JUNE . | 11 6 32 | 11 14 22 | | JUNE . | 8 21 42 | 8 16 26 |
| | JULY . | 10 19 16 | 10 23 19 | | JULY . | 8 10 26 | 8 8 4 |
| | AUG. . | 9 8 0 | 9 7 49 | | AUG. . | 6 23 10 | 7 0 18 |
| | SEPT. . | 7 20 44 | 7 16 41 | | SEPT. . | 5 11 54 | 5 16 18 |
| | OCT. . | 7 9 28 | 7 2 37 | | OCT. . | 5 0 38 | 5 7 28 |
| | NOV. . | 5 22 12 | 5 13 55 | | NOV. . | 3 13 22 | 3 21 24 |
| | DEC. . | 5 10 56 | 5 2 45 | | DEC. . | 3 2 6 | 3 9 56 |
| 1440. | JAN. . | 3 23 40 | 3 17 1 | 1437. | JAN. . | 1 14 50 | 1 21 2 |
| C. | FEB. . | 2 12 24 | 2 8 31 | G.F. | FEB. . | 31 3 34 | 31 6 51 |
| | MAR. . | 4 1 9 | 4 0 48 | | MAR. . | 29 16 13 | 29 15 45 |
| 3 7 35 | APRIL | 2 13 53 | 2 17 6 | | MAR. . | 30 5 3 | 30 0 23 |
| | MAY . | 2 2 37 | 2 8 36 | 3 1 5 | APRIL | 23 17 47 | 23 9 37 |
| | JUNE . | 31 15 21 | 31 22 43 | | MAY . | 28 6 31 | 27 20 21 |
| | JULY . | 30 4 5 | 30 11 10 | | JUNE . | 26 19 15 | 26 9 16 |
| | AUG. . | 28 5 33 | 28 8 30 | | JULY . | 26 7 59 | 26 0 29 |
| | SEPT. . | 26 18 17 | 26 13 37 | | AUG. . | 24 20 43 | 24 17 32 |
| | OCT. . | 26 7 1 | 26 5 4 | | SEPT. . | 23 9 27 | 23 11 22 |
| | NOV. . | 24 19 45 | 24 15 58 | | OCT. . | 22 22 11 | 23 4 53 |
| | DEC. . | 24 8 29 | 24 3 26 | | NOV. . | 21 10 55 | 21 20 59 |
| | | | | | DEC. . | 20 23 39 | 21 11 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1436. E. April. <i>d. h. m.</i> 3 6 54 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1433. B.A. April. <i>d. h. m.</i> 3 0 20 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 19 12 23 | 19 22 44 | | JAN. . | 17 3 33 | 17 8 56 |
| | FEB. . | 18 1 7 | 18 8 23 | | FEB. . | 15 16 17 | 16 2 33 |
| | MAR. . | 19 13 52 | 19 16 31 | | MAR. . | 16 5 1 | 16 17 40 |
| | APRIL | 18 2 36 | 17 23 55 | | APRIL | 14 17 45 | 15 5 56 |
| | MAY . | 17 15 20 | 17 7 33 | | MAY . | 14 6 29 | 14 13 38 |
| | JUNE . | 16 4 4 | 15 16 33 | | JUNE . | 12 19 13 | 12 23 40 |
| | JULY . | 15 16 48 | 15 3 52 | | JULY . | 12 7 57 | 12 7 5 |
| | AUG. . | 14 5 32 | 13 18 4 | | AUG. . | 10 20 41 | 10 14 55 |
| | SEPT. . | 12 18 16 | 12 10 58 | | SEPT. . | 9 9 25 | 9 0 2 |
| | OCT. . | 12 7 0 | 12 5 41 | | OCT. . | 8 22 9 | 8 11 3 |
| | NOV. . | 10 19 44 | 11 0 47 | | NOV. . | 7 10 53 | 7 0 18 |
| | DEC. . | 10 8 28 | 10 18 44 | | DEC. . | 6 23 37 | 6 15 41 |
| 1435. D. 3 12 43 | JAN. . | 8 21 12 | 9 10 20 | 1432. G. 3 6 9 | JAN. . | 5 12 21 | 5 8 44 |
| | FEB. . | 7 9 56 | 7 23 3 | | FEB. . | 4 1 5 | 4 2 30 |
| | MAR. . | 8 22 40 | 9 9 4 | | MAR. . | 5 13 50 | 5 19 53 |
| | APRIL | 7 11 24 | 7 17 1 | | APRIL | 4 2 34 | 4 11 46 |
| | MAY . | 7 0 8 | 6 23 52 | | MAY . | 3 15 18 | 4 1 28 |
| | JUNE . | 5 12 52 | 5 6 42 | | JUNE . | 2 4 2 | 2 12 57 |
| | JULY . | 5 1 36 | 4 14 35 | | JULY . | 1 16 46 | 1 22 39 |
| | AUG. . | 3 14 20 | 3 0 36 | | | 31 5 30 | 31 7 27 |
| | SEPT. . | 2 3 4 | 1 13 32 | | AUG. . | 29 18 14 | 29 16 17 |
| | OCT. . | 1 15 43 | 1 5 31 | | SEPT. . | 28 6 58 | 28 1 49 |
| | | 31 4 32 | 31 0 0 | | OCT. . | 27 19 42 | 27 12 31 |
| | NOV. . | 29 17 16 | 29 19 34 | | NOV. . | 26 8 26 | 26 0 32 |
| | DEC. . | 29 6 0 | 29 14 35 | | DEC. . | 25 21 10 | 25 13 56 |
| 1434. C. 3 18 31 | JAN. . | 27 18 44 | 28 7 31 | 1431. F. 3 11 58 | JAN. . | 24 9 54 | 24 4 35 |
| | FEB. . | 26 7 28 | 26 21 27 | | FEB. . | 22 22 38 | 22 20 14 |
| | MAR. . | 27 20 13 | 28 8 23 | | MAR. . | 24 11 23 | 24 12 23 |
| | APRIL | 26 8 57 | 26 16 52 | | APRIL | 23 0 7 | 23 4 15 |
| | MAY . | 25 21 41 | 25 23 56 | | MAY . | 22 12 51 | 22 19 8 |
| | JUNE . | 24 10 25 | 24 6 41 | | JUNE . | 21 1 35 | 21 8 34 |
| | JULY . | 23 23 9 | 23 14 12 | | JULY . | 20 14 19 | 20 20 31 |
| | AUG. . | 22 11 53 | 21 23 28 | | AUG. . | 19 3 3 | 19 7 23 |
| | SEPT. . | 21 0 37 | 20 11 15 | | SEPT. . | 17 15 47 | 17 17 46 |
| | OCT. . | 20 13 21 | 20 1 54 | | OCT. . | 17 4 31 | 17 4 13 |
| | NOV. . | 19 2 5 | 18 19 8 | | NOV. . | 15 17 15 | 15 14 57 |
| | DEC. . | 18 14 49 | 18 13 57 | | DEC. . | 15 5 59 | 15 2 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|-----------------------------|-----------------------------|--|---------|----------------------------|-----------------------------|
| B.C. 1430. E. April. <i>d. h. m.</i> 3 17 47 | JAN. . | <i>d. h. m.</i> 13 18 43 | <i>d. h. m.</i> 13 13 37 | B.C. 1427. A. April. <i>d. h. m.</i> 3 11 13 | JAN. . | <i>d. h. m.</i> 10 9 53 | <i>d. h. m.</i> 10 21 25 |
| | FEB. . | 12 7 27 | 12 1 48 | | FEB. . | 8 22 37 | 9 7 56 |
| | MAR. . | 13 20 11 | 13 14 55 | | MAR. . | 10 11 21 | 10 16 33 |
| | APRIL | 12 8 55 | 12 5 2 | | APRIL | 9 0 5 | 9 0 2 |
| | MAY . | 11 21 39 | 11 20 4 | | MAY . | 8 12 49 | 8 7 17 |
| | JUNE . | 10 10 23 | 10 11 28 | | JUNE . | 7 1 33 | 6 15 24 |
| | JULY . | 9 23 7 | 10 2 38 | | JULY . | 6 14 17 | 6 1 25 |
| | AUG. . | 8 11 51 | 8 16 59 | | AUG. . | 5 3 1 | 4 14 12 |
| | SEPT. . | 7 0 35 | 7 6 22 | | SEPT. . | 3 15 45 | 3 5 55 |
| | OCT. . | 6 13 19 | 6 18 49 | | OCT. . | 3 4 29 | 3 0 1 |
| | NOV. . | 5 2 3 | 5 6 33 | | NOV. . | 1 17 13 | 1 19 16 |
| | DEC. . | 4 14 47 | 4 17 41 | | DEC. . | { 1 5 57 30 18 41 | { 1 14 4 31 6 59 |
| 1429. D.C. | JAN. . | 3 3 31 | 3 4 14 | 1426. G. | JAN. . | 29 7 25 | 29 21 6 |
| | FEB. . | 1 16 16 | 1 14 19 | | FEB. . | 27 20 9 | 28 8 18 |
| | MAR. . | { 2 5 0 31 17 44 | { 2 0 23 31 10 59 | | MAR. . | 29 8 54 | 29 17 5 |
| 2 23 36 | APRIL | 30 6 23 | 29 22 49 | 3 17 2 | APRIL | 27 21 38 | 28 0 16 |
| | MAY . | 29 19 12 | 29 12 18 | | MAY . | 27 10 22 | 27 6 55 |
| | JUNE . | 28 7 56 | 28 3 24 | | JUNE . | 25 23 6 | 25 14 10 |
| | JULY . | 27 20 40 | 27 19 36 | | JULY . | 25 11 50 | 24 23 3 |
| | AUG. . | 26 9 24 | 26 12 4 | | AUG. . | 24 0 34 | 23 10 32 |
| | SEPT. . | 24 22 8 | 25 4 1 | | SEPT. . | 22 13 18 | 22 1 6 |
| | OCT. . | 24 10 52 | 24 18 51 | | OCT. . | 22 2 2 | 21 18 30 |
| | NOV. . | 22 23 36 | 23 8 15 | | NOV. . | 20 14 46 | 20 13 44 |
| | DEC. . | 22 12 20 | 22 20 4 | | DEC. . | 20 3 30 | 20 9 13 |
| 1428. B. | JAN. . | 21 1 4 | 21 6 23 | 1425. F.E. | JAN. . | 18 16 14 | 19 3 17 |
| | FEB. . | 19 13 43 | 19 15 29 | | FEB. . | 17 4 58 | 17 18 42 |
| | MAR. . | 21 2 33 | 20 23 56 | | MAR. . | 17 17 43 | 18 7 2 |
| 3 5 21 | APRIL | 19 15 17 | 19 8 31 | 2 22 51 | APRIL | 16 6 27 | 16 16 35 |
| | MAY . | 19 4 1 | 18 18 13 | | MAY . | 15 19 11 | 16 0 13 |
| | JUNE . | 17 16 45 | 17 5 55 | | JUNE . | 14 7 55 | 14 7 2 |
| | JULY . | 17 5 29 | 16 20 2 | | JULY . | 13 20 39 | 13 14 7 |
| | AUG. . | 15 18 13 | 15 12 23 | | AUG. . | 12 9 23 | 11 22 31 |
| | SEPT. . | 14 6 57 | 14 6 10 | | SEPT. . | 10 22 7 | 10 9 5 |
| | OCT. . | 13 19 41 | 14 0 15 | | OCT. . | 10 10 51 | 9 22 22 |
| | NOV. . | 12 8 25 | 12 17 21 | | NOV. . | 8 23 35 | 8 14 22 |
| | DEC. . | 11 21 9 | 12 8 34 | | DEC. . | 8 12 19 | 8 8 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1424. | JAN. . | 7 1 3 | 7 3 24 | 1421. | JAN. . | 4 16 12 | 4 12 4 |
| D. | FEB. . | 5 13 47 | 5 21 42 | A.G. | FEB. . | 3 4 56 | 2 23 39 |
| April. | MAR. . | 7 2 31 | 7 14 3 | April. | MAR. . | 3 17 41 | 3 11 59 |
| <i>d. h. m.</i> | APRIL | 5 15 15 | 6 3 41 | <i>d. h. m.</i> | APRIL | 2 6 25 | 2 1 19 |
| 3 4 40 | MAY . | 5 3 59 | 5 14 37 | 2 22 6 | MAY . | { 1 19 9 | 1 15 45 |
| | JUNE . | 3 16 43 | 3 23 26 | | | { 31 7 53 | 31 6 58 |
| | JULY . | 3 5 27 | 3 7 9 | | JUNE . | 29 20 37 | 29 22 26 |
| | AUG. . | { 1 18 11 | 1 14 50 | | JULY . | 29 9 21 | 29 18 29 |
| | | { 31 6 55 | 30 23 24 | | AUG. . | 27 22 5 | 28 3 39 |
| | SEPT. . | 29 19 39 | 29 9 33 | | SEPT. . | 26 10 49 | 26 16 51 |
| | OCT. . | 29 8 23 | 28 21 43 | | OCT. . | 25 23 33 | 26 5 10 |
| | NOV. . | 27 21 7 | 27 11 59 | | NOV. . | 24 12 17 | 24 16 40 |
| | DEC. . | 27 9 51 | 27 4 6 | | DEC. . | 24 1 1 | 24 3 26 |
| 1423. | JAN. . | 25 22 35 | 25 21 24 | 1420. | JAN. . | 22 13 45 | 22 18 38 |
| C. | FEB. . | 24 11 19 | 24 14 52 | F. | FEB. . | 21 2 29 | 20 23 19 |
| | MAR. . | 26 0 4 | 26 7 27 | | MAR. . | 22 15 14 | 22 9 18 |
| 3 10 29 | APRIL | 24 12 43 | 24 22 16 | 3 3 55 | APRIL | 21 3 58 | 20 20 12 |
| | MAY . | 24 1 32 | 24 10 55 | | MAY . | 20 16 42 | 20 8 41 |
| | JUNE . | 22 14 16 | 22 21 34 | | JUNE . | 19 5 26 | 18 22 58 |
| | JULY . | 22 3 0 | 22 6 56 | | JULY . | 18 18 10 | 18 14 43 |
| | AUG. . | 20 15 44 | 20 15 53 | | AUG. . | 17 6 54 | 17 7 26 |
| | SEPT. . | 19 4 23 | 19 1 13 | | SEPT. . | 15 19 33 | 16 0 2 |
| | OCT. . | 18 17 12 | 18 11 26 | | OCT. . | 15 8 22 | 15 15 45 |
| | NOV. . | 17 5 56 | 16 22 47 | | NOV. . | 13 21 6 | 14 6 5 |
| | DEC. . | 16 18 40 | 16 11 22 | | DEC. . | 13 9 50 | 13 18 44 |
| 1422. | JAN. . | 15 7 24 | 15 1 10 | 1419. | JAN. . | 11 22 34 | 12 5 42 |
| B. | FEB. . | 13 20 8 | 13 16 5 | E. | FEB. . | 10 11 18 | 10 15 18 |
| | MAR. . | 15 8 52 | 15 7 45 | | MAR. . | 12 0 2 | 11 23 41 |
| 3 16 17 | APRIL | 13 21 36 | 13 23 41 | 3 9 44 | APRIL | 10 12 46 | 10 7 52 |
| | MAY . | 13 10 20 | 13 15 6 | | MAY . | 10 1 30 | 9 16 43 |
| | JUNE . | 11 23 4 | 12 5 23 | | JUNE . | 8 14 14 | 8 3 14 |
| | JULY . | 11 11 48 | 11 18 17 | | JULY . | 8 2 58 | 7 16 5 |
| | AUG. . | 10 0 32 | 10 5 53 | | AUG. . | 6 15 42 | 6 7 27 |
| | SEPT. . | 8 13 16 | 8 16 44 | | SEPT. . | 5 4 26 | 5 0 50 |
| | OCT. . | 8 2 0 | 8 3 19 | | OCT. . | 4 17 10 | 4 19 3 |
| | NOV. . | 6 14 44 | 6 14 0 | | NOV. . | 3 5 54 | 3 13 3 |
| | DEC. . | 6 3 23 | 6 0 55 | | DEC. . | 2 13 38 | 3 5 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. | | | | B.C. | | | |
| 1418. | | | | 1415. | | | |
| D. | | | | G. | | | |
| | JAN. . | { 1 7 22 | 1 19 31 | April. | JAN. . | 27 11 16 | 27 16 27 |
| | FEB. . | { 30 20 6 | 31 7 5 | <i>d. h. m.</i> | FEB. . | 26 0 0 | 26 9 46 |
| | MAR. . | { 1 8 51 | 1 16 28 | 3 8 59 | MAR. . | 27 12 45 | 28 0 45 |
| April. | APRIL | { 30 21 35 | 31 0 16 | | APRIL | 26 1 29 | 26 13 0 |
| <i>d. h. m.</i> | MAY . | 29 10 19 | 29 7 21 | | MAY . | 25 14 13 | 25 22 50 |
| 3 15 33 | JUNE . | 28 23 3 | 28 14 49 | | JUNE . | 24 2 57 | 24 7 5 |
| | JULY . | 27 11 47 | 26 23 43 | | JULY . | 23 15 41 | 23 14 50 |
| | AUG. . | 27 0 31 | 26 11 4 | | AUG. . | 22 4 25 | 21 23 3 |
| | SEPT. . | 25 13 15 | 25 1 25 | | SEPT. . | 20 17 9 | 20 8 31 |
| | OCT. . | 24 1 59 | 23 18 33 | | OCT. . | 20 5 53 | 19 19 43 |
| | NOV. . | 23 14 43 | 23 13 31 | | NOV. . | 18 18 37 | 18 8 54 |
| | DEC. . | 22 3 27 | 22 8 51 | | DEC. . | 18 7 21 | 17 23 59 |
| | | 21 16 11 | 22 2 54 | 1414. | JAN. . | 16 20 5 | 16 16 33 |
| | | | | F. | FEB. . | 15 8 49 | 15 9 49 |
| 1417. | JAN. . | 20 4 55 | 20 13 27 | | MAR. . | 16 21 34 | 17 2 47 |
| C.B. | FEB. . | 18 17 39 | 19 7 1 | | APRIL | 15 10 18 | 15 18 28 |
| | MAR. . | 19 6 24 | 19 16 49 | 3 14 43 | MAY . | 14 23 2 | 15 8 15 |
| 2 21 22 | APRIL | 17 19 8 | 18 0 35 | | JUNE . | 13 11 46 | 13 19 58 |
| | MAY . | 17 7 52 | 17 7 19 | | JULY . | 13 0 30 | 13 6 6 |
| | JUNE . | 15 20 36 | 15 14 7 | | AUG. . | 11 13 14 | 11 15 23 |
| | JULY . | 15 9 20 | 14 22 6 | | SEPT. . | 10 1 58 | 10 0 40 |
| | AUG. . | 13 22 4 | 13 8 17 | | OCT. . | 9 14 42 | 9 10 34 |
| | SEPT. . | 12 10 48 | 11 21 22 | | NOV. . | 8 3 26 | 7 21 24 |
| | OCT. . | 11 23 32 | 11 13 29 | | DEC. . | 7 16 10 | 7 9 18 |
| | NOV. . | 10 12 16 | 10 7 59 | | | | |
| | DEC. . | 10 1 0 | 10 3 33 | 1413. | JAN. . | 6 4 54 | 5 22 17 |
| | | | | E.D. | FEB. . | 4 17 38 | 4 12 22 |
| 1416. | JAN. . | 8 13 44 | 8 22 6 | | MAR. . | 5 6 22 | 5 3 27 |
| A. | FEB. . | 7 2 28 | 7 15 11 | | APRIL | 3 19 6 | 3 19 4 |
| | MAR. . | 8 15 12 | 9 4 59 | 2 20 37 | MAY . | 3 7 50 | 3 10 44 |
| 3 3 10 | APRIL | 7 3 56 | 7 15 48 | | JUNE . | 1 20 34 | 2 1 42 |
| | MAY . | 6 16 40 | 7 0 14 | | JULY . | { 1 9 18 | 1 15 29 |
| | JUNE . | 5 5 24 | 5 7 22 | | | { 30 22 2 | 31 3 57 |
| | JULY . | 4 18 8 | 4 14 16 | | AUG. . | 29 10 46 | 29 15 23 |
| | AUG. . | 3 6 52 | 2 22 1 | | SEPT. . | 27 23 30 | 28 2 19 |
| | SEPT. . | 1 19 36 | { 1 7 33 | | OCT. . | 27 12 14 | 27 13 5 |
| | OCT. . | { 30 21 4 | 30 10 11 | | NOV. . | 26 0 58 | 25 23 55 |
| | NOV. . | 29 9 43 | 29 3 16 | | DEC. . | 25 13 42 | 25 10 50 |
| | DEC. . | 28 22 32 | 28 21 49 | | | | |

JERUSALEM CIVIL TIME

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1412. c. April. d. h. m. 3 2 25 | | d. h. m. | d. h. m. | B.C. 1409. G.F. April. d. h. m. 2 19 52 | | d. h. m. | d. h. m. |
| | JAN. . | 24 2 26 | 23 21 58 | | JAN. . | 21 17 36 | 22 5 48 |
| | FEB. . | 22 15 10 | 22 9 33 | | FEB. . | 20 6 20 | 20 16 5 |
| | MAR. . | 24 3 55 | 23 22 4 | | MAR. . | 20 19 5 | 21 0 26 |
| | APRIL | 22 16 39 | 22 11 44 | | APRIL | 19 7 49 | 19 7 37 |
| | MAY . | 22 5 23 | 22 2 32 | | MAY . | 18 20 33 | 18 14 38 |
| | JUNE . | 20 18 7 | 20 18 0 | | JUNE . | 17 9 17 | 16 22 38 |
| | JULY . | 20 6 51 | 20 9 30 | | JULY . | 16 22 1 | 16 8 42 |
| | AUG. . | 18 19 35 | 19 0 25 | | AUG. . | 15 10 45 | 14 21 34 |
| | SEPT. . | 17 8 19 | 17 14 25 | | SEPT. . | 13 23 29 | 13 13 27 |
| | OCT. . | 16 21 3 | 17 3 25 | | OCT. . | 13 12 13 | 13 7 47 |
| | NOV. . | 15 9 47 | 15 15 27 | | NOV. . | 12 0 57 | 12 3 15 |
| | DEC. . | 14 22 31 | 15 2 36 | | DEC. . | 11 13 41 | 11 22 10 |
| 1411. B. | JAN. . | 13 11 15 | 13 12 54 | 1408. E. | JAN. . | 10 2 25 | 10 15 4 |
| | FEB. . | 11 23 59 | 11 22 34 | | FEB. . | 8 15 9 | 9 5 5 |
| | MAR. . | 13 12 44 | 13 8 5 | | MAR. . | 10 3 53 | 10 16 6 |
| 3 8 14 | APRIL | 12 1 23 | 11 18 11 | 3 1 41 | APRIL | 8 16 37 | 9 0 41 |
| | MAY . | 11 14 12 | 11 5 38 | | MAY . | 8 5 21 | 8 7 43 |
| | JUNE . | 10 2 56 | 9 18 55 | | JUNE . | 6 18 5 | 6 14 21 |
| | JULY . | 9 15 40 | 9 10 4 | | JULY . | 6 6 49 | 5 21 39 |
| | AUG. . | 8 4 24 | 8 2 34 | | AUG. . | 4 19 33 | 4 6 43 |
| | SEPT. . | 6 17 8 | 6 19 33 | | SEPT. . | 3 8 17 | 2 18 21 |
| | OCT. . | 6 5 52 | 6 12 5 | | OCT. . | 2 21 1 | 2 9 2 |
| | NOV. . | 4 18 36 | 5 3 23 | | NOV. . | 1 9 45 | 1 2 30 |
| | DEC. . | 4 7 20 | 4 17 0 | | NOV. . | 30 22 29 | 30 21 43 |
| | | | | | DEC. . | 30 11 13 | 30 17 4 |
| 1410. A. | JAN. . | 2 20 4 | 3 4 47 | 1407. D. | JAN. . | 28 23 57 | 29 10 57 |
| | FEB. . | 1 8 48 | 1 14 51 | | FEB. . | 27 12 41 | 28 2 12 |
| | MAR. . | 2 21 32 | 2 23 34 | | MAR. . | 29 1 26 | 29 14 24 |
| 3 14 3 | APRIL | 1 10 16 | 1 7 35 | 3 7 30 | APRIL | 27 14 10 | 27 23 55 |
| | | 30 23 0 | 30 15 47 | | MAY . | 27 2 54 | 27 7 36 |
| | MAY . | 30 11 44 | 30 1 12 | | JUNE . | 25 15 33 | 25 14 33 |
| | JUNE . | 29 0 28 | 28 12 47 | | JULY . | 25 4 22 | 24 21 58 |
| | JULY . | 28 13 12 | 28 2 58 | | AUG. . | 23 17 6 | 23 6 34 |
| | AUG. . | 27 1 56 | 26 19 33 | | SEPT. . | 22 5 50 | 21 17 22 |
| | SEPT. . | 25 14 40 | 25 13 45 | | OCT. . | 21 18 34 | 21 6 43 |
| | OCT. . | 25 3 24 | 25 8 14 | | NOV. . | 20 7 18 | 19 22 37 |
| | NOV. . | 23 16 8 | 24 1 41 | | DEC. . | 19 20 2 | 19 16 26 |
| | DEC. . | 23 4 52 | 23 17 2 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|---|--|---|--|--|
| B.C. 1406. C. April. <i>d. h. m.</i> 3 13 18 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 18 8 46 16 21 30 18 10 15 16 22 59 16 11 43 15 0 27 14 13 11 13 1 55 11 14 39 11 3 23 9 16 7 9 4 51 | <i>d. h. m.</i> 18 11 1 17 4 59 18 21 7 17 10 41 16 21 43 15 6 45 14 14 48 12 22 52 11 7 48 10 18 13 9 6 23 8 20 27 | B.C. 1403. F. April. <i>d. h. m.</i> 3 6 45 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 14 23 56 13 12 40 15 1 25 13 14 9 13 2 53 11 15 37 11 4 21 9 17 5 8 5 49 7 18 33 6 7 17 5 20 1 | <i>d. h. m.</i> 14 20 38 13 7 41 14 19 23 13 8 10 12 22 17 11 13 27 11 5 8 9 20 40 8 11 27 8 1 15 6 13 57 6 1 36 |
| 1405. B.A. 2 19 7 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 7 17 35 6 6 19 6 19 3 5 7 47 4 20 31 3 9 15 2 21 59 { 1 10 43 30 23 27 29 12 11 29 0 55 27 13 39 27 2 23 | 7 12 7 6 4 53 6 21 52 5 14 10 5 4 56 3 17 46 3 4 48 1 14 39 31 0 5 29 9 50 28 20 17 27 7 38 26 19 55 | 1402. E. 3 12 34 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 4 8 45 2 21 29 4 10 13 2 22 57 2 11 41 { 1 0 25 30 13 9 30 1 53 28 14 37 27 3 21 26 16 5 25 4 49 24 17 33 | 4 12 14 2 21 59 4 7 15 2 16 43 2 3 10 31 15 21 30 5 35 29 21 37 28 14 42 27 7 49 27 0 4 25 14 44 25 3 28 |
| 1404. G. 3 0 56 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 25 15 7 24 3 51 25 16 36 24 5 20 23 18 4 22 6 48 21 19 32 20 8 16 18 21 0 18 9 44 16 22 28 16 11 12 | 25 9 11 23 23 29 25 14 38 24 6 14 23 21 36 22 12 7 22 1 28 20 13 40 19 1 5 18 12 6 16 22 59 16 9 48 | 1401. D.C. 2 18 23 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 23 6 18 21 19 2 22 7 46 20 20 30 20 9 14 18 21 53 18 10 42 16 23 26 15 12 10 15 0 54 13 13 38 13 2 22 | 23 14 17 21 23 25 22 7 29 20 15 17 19 23 51 18 10 10 17 23 2 16 14 35 15 8 17 15 2 59 13 21 17 13 13 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|-----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1400. B. April. <i>d. h. m.</i> 3 0 11 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1397. F.E. April. <i>d. h. m.</i> 2 17 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 15 6 | 12 3 56 | | JAN. . | 9 6 16 | 9 5 36 |
| | FEB. . | 10 3 50 | 10 15 18 | | FEB. . | 7 19 0 | 7 23 50 |
| | MAR. . | 11 16 35 | 12 0 24 | | MAR. . | 8 7 45 | 8 16 52 |
| | APRIL | 10 5 19 | 10 7 54 | | APRIL | 6 20 29 | 7 7 42 |
| | MAY . | 9 18 3 | 9 14 47 | | MAY . | 6 9 13 | 6 19 59 |
| | JUNE . | 8 6 47 | 7 22 8 | | JUNE . | 4 21 57 | 5 6 0 |
| | JULY . | 7 19 31 | 7 7 1 | | JULY . | 4 10 41 | 4 14 36 |
| | AUG. . | 6 8 15 | 5 18 28 | | AUG. . | 2 23 25 | 2 22 44 |
| | SEPT. . | 4 20 59 | 4 8 56 | | SEPT. . | 1 12 9 | 1 7 20 |
| | OCT. . | 4 9 43 | 4 2 16 | | OCT. . | { 1 0 53 30 13 37 | 30 4 27 |
| | NOV. . | 2 22 27 | 2 21 27 | | | | 28 17 30 |
| | DEC. . | { 2 11 11 31 23 55 | 2 16 54 | | NOV. . | 29 2 21 | 28 8 13 |
| | | | | | DEC. . | 28 15 5 | 28 8 13 |
| 1399. A. | JAN. . | 30 12 39 | { 1 10 58 31 2 26 | 1396. D. | JAN. . | 27 3 49 | 27 0 15 |
| | FEB. . | ... | ... | | FEB. . | 25 16 33 | 25 16 59 |
| | MAR. . | { 1 1 23 30 14 7 | 1 14 49 | | MAR. . | 27 5 17 | 27 9 34 |
| 3 6 0 | APRIL | 29 2 51 | 29 8 3 | 2 23 27 | APRIL | 25 18 1 | 26 1 6 |
| | MAY . | 23 15 35 | 23 14 45 | | MAY . | 25 6 45 | 25 14 57 |
| | JUNE . | 27 4 19 | 26 21 38 | | JUNE . | 23 19 29 | 24 3 1 |
| | JULY . | 26 17 3 | 26 5 45 | | JULY . | 23 8 13 | 23 13 36 |
| | AUG. . | 25 5 47 | 24 16 6 | | AUG. . | 21 20 57 | 21 23 24 |
| | SEPT. . | 23 18 31 | 23 5 19 | | SEPT. . | 20 9 41 | 20 9 8 |
| | OCT. . | 23 7 15 | 22 21 31 | | OCT. . | 19 22 25 | 19 19 22 |
| | NOV. . | 21 19 59 | 21 15 59 | | NOV. . | 18 11 9 | 18 6 18 |
| | DEC. . | 21 8 43 | 21 11 25 | | DEC. . | 17 23 53 | 17 18 1 |
| 1398. G. | JAN. . | 19 21 28 | 20 6 8 | 1395. C. | JAN. . | 16 12 38 | 16 6 34 |
| | FEB. . | 18 10 12 | 18 22 42 | | FEB. . | 15 1 22 | 14 20 3 |
| | MAR. . | 19 22 56 | 20 12 21 | | MAR. . | 16 14 6 | 16 10 30 |
| 3 11 49 | APRIL | 18 11 40 | 18 23 5 | 3 5 16 | APRIL | 15 2 50 | 15 1 43 |
| | MAY . | 18 0 24 | 18 7 35 | | MAY . | 14 15 34 | 14 17 12 |
| | JUNE . | 16 13 8 | 16 14 50 | | JUNE . | 13 4 18 | 13 8 17 |
| | JULY . | 16 1 52 | 15 21 59 | | JULY . | 12 17 2 | 12 22 26 |
| | AUG. . | 14 14 36 | 14 6 2 | | AUG. . | 11 5 46 | 11 11 29 |
| | SEPT. . | 13 3 20 | 12 15 49 | | SEPT. . | 9 18 30 | 9 23 31 |
| | OCT. . | 12 16 4 | 12 3 56 | | OCT. . | 9 7 14 | 9 10 56 |
| | NOV. . | 11 4 43 | 10 18 34 | | NOV. . | 7 19 58 | 7 22 1 |
| | DEC. . | 10 17 32 | 10 11 25 | | DEC. . | 7 8 42 | 7 8 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|-----------------------------|---------|----------------------|----------------------|-----------------------------|---------|----------------------|----------------------|
| B.C. 1394. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1391. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | 5 21 26 | 5 19 34 | E. | JAN. . | 2 12 36 | 3 1 24 |
| April. | FEB. . | 4 10 10 | 4 6 12 | April. | FEB. . | 1 1 20 | 1 14 3 |
| <i>d. h. m.</i> | MAR. . | 5 22 54 | 5 17 13 | <i>d. h. m.</i> | MAR. . | 2 14 4 | 3 0 6 |
| 3 11 4 | APRIL | 4 11 38 | 4 5 8 | 3 4 31 | APRIL | { 1 2 48 | 1 8 7 |
| | MAY . | 4 0 22 | 3 13 23 | | | { 30 15 32 | 30 15 6 |
| | JUNE . | 2 13 6 | 2 8 59 | | MAY . | 30 4 16 | 29 22 0 |
| | JULY . | { 2 1 50 | 2 0 33 | | JUNE . | 28 17 0 | 28 5 59 |
| | | { 31 14 34 | 31 16 27 | | JULY . | 28 5 44 | 27 16 5 |
| | AUG. . | 30 3 18 | 30 7 57 | | AUG. . | 26 18 28 | 26 5 5 |
| | SEPT. . | 28 16 2 | 28 22 34 | | SEPT. . | 25 7 12 | 24 21 9 |
| | OCT. . | 28 4 46 | 28 12 3 | | OCT. . | 24 19 56 | 24 15 39 |
| | NOV. . | 26 17 30 | 27 0 20 | | NOV. . | 23 8 40 | 23 11 13 |
| | DEC. . | 26 6 14 | 26 11 26 | | DEC. . | 22 21 24 | 23 6 11 |
| 1393. | JAN. . | 24 18 59 | 24 21 28 | 1390. | JAN. . | 21 10 8 | 21 23 1 |
| A.G. | FEB. . | 23 7 43 | 23 6 42 | D. | FEB. . | 19 22 52 | 20 12 53 |
| | MAR. . | 23 20 27 | 23 15 42 | | MAR. . | 21 11 37 | 21 23 44 |
| 2 16 53 | APRIL | 22 9 11 | 22 1 19 | 3 10 20 | APRIL | 20 0 21 | 20 8 11 |
| | MAY . | 21 21 55 | 21 12 25 | | MAY . | 19 13 5 | 19 15 11 |
| | JUNE . | 20 10 39 | 20 1 33 | | JUNE . | 18 1 49 | 17 21 52 |
| | JULY . | 19 23 23 | 19 16 43 | | JULY . | 17 14 33 | 17 5 18 |
| | AUG. . | 18 12 7 | 18 9 39 | | AUG. . | 16 3 17 | 15 14 32 |
| | SEPT. . | 17 0 51 | 17 3 9 | | SEPT. . | 14 16 1 | 14 2 22 |
| | OCT. . | 16 13 35 | 16 20 11 | | OCT. . | 14 4 45 | 13 17 9 |
| | NOV. . | 15 2 19 | 15 11 54 | | NOV. . | 12 17 29 | 12 10 35 |
| | DEC. . | 14 15 3 | 15 1 41 | | DEC. . | 12 6 13 | 12 5 39 |
| 1392. | JAN. . | 13 3 47 | 13 13 23 | 1389. | JAN. . | 10 18 58 | 11 0 43 |
| F. | FEB. . | 11 16 31 | 11 23 9 | C.B. | FEB. . | 9 7 42 | 9 18 29 |
| | MAR. . | 13 5 16 | 13 7 30 | | MAR. . | 9 20 26 | 10 9 34 |
| 2 22 42 | APRIL | 11 18 0 | 11 15 8 | 2 16 9 | APRIL | 8 9 10 | 8 21 41 |
| | MAY . | 11 6 44 | 10 23 2 | | MAY . | 7 21 54 | 8 7 11 |
| | JUNE . | 9 19 28 | 9 8 16 | | JUNE . | 6 10 38 | 6 15 0 |
| | JULY . | 9 8 12 | 8 19 47 | | JULY . | 5 23 22 | 5 22 10 |
| | AUG. . | 7 20 56 | 7 10 2 | | AUG. . | 4 12 6 | 4 5 49 |
| | SEPT. . | 6 9 40 | 6 2 55 | | SEPT. . | 3 0 50 | 2 14 47 |
| | OCT. . | 5 22 24 | 5 21 28 | | OCT. . | 2 13 34 | { 2 1 43 |
| | NOV. . | 4 11 8 | 4 16 19 | | | | { 31 15 11 |
| | DEC. . | 3 23 52 | 4 9 59 | | NOV. . | { 1 2 18 | 30 6 55 |
| | | | | | | { 30 15 2 | 30 6 55 |
| | | | | | DEC. . | 30 3 46 | 30 0 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1388. A. April. <i>d. h. m.</i> 2 21 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1385. E.D. April. <i>d. h. m.</i> 2 15 24 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 28 16 30 | 28 18 31 | | JAN. . | 26 7 40 | 26 5 4 |
| | FEB. . | 27 5 14 | 27 12 7 | | FEB. . | 24 20 24 | 24 15 34 |
| | MAR. . | 28 17 58 | 29 4 2 | | MAR. . | 25 9 8 | 25 2 40 |
| | APRIL | 27 6 42 | 27 17 35 | | APRIL | 23 21 52 | 23 14 59 |
| | MAY . | 26 19 26 | 27 4 45 | | MAY . | 23 10 36 | 23 4 47 |
| | JUNE . | 25 8 10 | 25 14 6 | | JUNE . | 21 23 20 | 21 19 57 |
| | JULY . | 24 20 54 | 24 22 32 | | JULY . | 21 12 4 | 21 11 55 |
| | AUG. . | 23 9 38 | 23 7 0 | | AUG. . | 20 0 48 | 20 3 58 |
| | SEPT. . | 21 22 22 | 21 16 18 | | SEPT. . | 18 18 32 | 18 19 22 |
| | OCT. . | 21 11 6 | 21 2 56 | | OCT. . | 18 2 16 | 18 9 42 |
| | NOV. . | 19 23 50 | 19 15 7 | | NOV. . | 16 15 0 | 16 22 46 |
| | DEC. . | 19 12 34 | 19 4 52 | | DEC. . | 16 3 44 | 16 10 28 |
| 1387. G. 3 3 46 | JAN. . | 18 1 19 | 17 20 4 | 1384. C. 2 21 13 | JAN. . | 14 16 28 | 14 20 54 |
| | FEB. . | 16 14 3 | 16 12 15 | | FEB. . | 13 5 12 | 13 6 15 |
| | MAR. . | 18 2 47 | 18 4 47 | | MAR. . | 14 17 57 | 14 15 3 |
| | APRIL | 16 15 31 | 16 20 48 | | APRIL | 13 6 41 | 13 0 2 |
| | MAY . | 16 4 15 | 16 11 33 | | MAY . | 12 19 25 | 12 10 7 |
| | JUNE . | 14 16 59 | 15 0 39 | | JUNE . | 11 8 9 | 10 22 5 |
| | JULY . | 14 5 43 | 14 12 6 | | JULY . | 10 20 53 | 10 12 19 |
| | AUG. . | 12 18 27 | 12 22 29 | | AUG. . | 9 9 37 | 9 4 35 |
| | SEPT. . | 11 7 11 | 11 8 25 | | SEPT. . | 7 22 21 | 7 22 6 |
| | OCT. . | 10 19 55 | 10 18 34 | | OCT. . | 7 11 5 | 7 15 46 |
| | NOV. . | 9 8 39 | 9 5 13 | | NOV. . | 5 23 49 | 6 8 27 |
| | DEC. . | 8 21 23 | 8 16 30 | | DEC. . | 5 12 33 | 5 23 21 |
| 1386. F. 3 9 35 | JAN. . | 7 10 7 | 7 4 25 | 1383. B. 3 3 2 | JAN. . | 4 1 18 | 4 12 6 |
| | FEB. . | 5 22 51 | 5 17 7 | | FEB. . | 2 14 2 | 2 22 41 |
| | MAR. . | 7 11 36 | 7 6 49 | | MAR. . | 4 2 46 | 4 7 29 |
| | APRIL | 6 0 20 | 5 21 26 | | APRIL | 2 15 30 | 2 15 11 |
| | MAY . | 5 13 4 | 5 12 42 | | MAY . | 2 4 14 | 1 22 40 |
| | JUNE . | 4 1 48 | 4 4 4 | | | 31 16 58 | 31 7 0 |
| | JULY . | 3 14 32 | 3 18 54 | | JUNE . | 30 5 42 | 29 17 14 |
| | AUG. . | 2 3 16 | 2 8 45 | | JULY . | 29 18 26 | 29 6 8 |
| | | 31 16 0 | 31 21 34 | | AUG. . | 28 7 10 | 27 21 52 |
| | SEPT. . | 30 4 44 | 30 9 32 | | SEPT. . | 26 19 54 | 26 15 52 |
| | OCT. . | 29 17 28 | 29 20 57 | | OCT. . | 26 8 33 | 26 10 54 |
| | NOV. . | 28 6 12 | 28 7 58 | | NOV. . | 24 21 22 | 25 5 28 |
| | DEC. . | 27 18 56 | 27 18 38 | | DEC. . | 24 10 3 | 24 22 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|-----------------------------|---------|----------------------|----------------------|-----------------------------|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1382. | JAN. . | 22 22 50 | 23 12 11 | B.C. 1379. | JAN. . | 19 14 0 | 19 13 15 |
| A. | FEB. . | 21 11 34 | 21 23 22 | D. | FEB. . | 18 2 44 | 18 7 5 |
| April. | MAR. . | 23 0 18 | 23 8 11 | April. | MAR. . | 19 15 28 | 19 23 48 |
| <i>d. h. m.</i> | APRIL | 21 13 2 | 21 15 28 | <i>d. h. m.</i> | APRIL | 18 4 12 | 18 14 32 |
| 3 8 50 | MAY . | 21 1 46 | 20 22 11 | 3 2 17 | MAY . | 17 16 56 | 18 2 54 |
| | JUNE . | 19 14 30 | 19 5 29 | | JUNE . | 16 5 40 | 16 13 12 |
| | JULY . | 19 3 14 | 18 14 26 | | JULY . | 15 18 24 | 15 22 10 |
| | AUG. . | 17 15 58 | 17 2 0 | | AUG. . | 14 7 8 | 14 6 43 |
| | SEPT. . | 16 4 42 | 15 16 37 | | SEPT. . | 12 19 52 | 12 15 45 |
| | OCT. . | 15 17 26 | 15 10 6 | | OCT. . | 12 8 36 | 12 1 49 |
| | NOV. . | 14 6 10 | 14 5 24 | | NOV. . | 10 21 20 | 10 13 14 |
| | DEC. . | 13 18 54 | 14 0 52 | | DEC. . | 10 10 4 | 10 2 7 |
| 1381. | JAN. . | 12 7 39 | 12 18 54 | 1378. | JAN. . | 8 22 43 | 8 16 23 |
| G.F. | FEB. . | 10 20 23 | 11 10 14 | C. | FEB. . | 7 11 32 | 7 7 50 |
| | MAR. . | 11 9 7 | 11 22 29 | | MAR. . | 9 0 17 | 9 0 2 |
| 2 14 39 | APRIL | 9 21 51 | 10 7 57 | 3 8 6 | APRIL | 7 13 1 | 7 16 13 |
| | MAY . | 9 10 35 | 9 15 30 | | MAY . | 7 1 45 | 7 7 39 |
| | JUNE . | 7 23 19 | 7 22 14 | | JUNE . | 5 14 29 | 5 21 41 |
| | JULY . | 7 12 3 | 7 5 14 | | JULY . | 5 3 13 | 5 10 7 |
| | AUG. . | 6 0 47 | 5 13 33 | | AUG. . | 3 15 57 | 3 21 13 |
| | SEPT. . | 4 13 31 | 4 0 6 | | SEPT. . | 2 4 41 | 2 7 31 |
| | OCT. . | 4 2 15 | 3 13 28 | | OCT. . | { 1 17 25 | 1 17 43 |
| | NOV. . | 2 14 59 | 2 5 39 | | | { 31 6 9 | 31 4 13 |
| | DEC. . | { 2 3 43 | 2 0 1 | | NOV. . | 29 18 53 | 29 15 15 |
| | | { 31 16 27 | 31 19 12 | | DEC. . | 29 7 37 | 29 2 41 |
| 1380. | JAN. . | 30 5 11 | 30 13 39 | 1377. | JAN. . | 27 20 21 | 27 14 44 |
| E. | FEB. . | 23 17 55 | ... | B.A. | FEB. . | 26 9 5 | 26 3 36 |
| | MAR. . | 30 6 39 | { 1 6 2 | | MAR. . | 26 21 49 | 26 17 23 |
| 2 20 23 | APRIL | 28 19 23 | { 30 19 34 | 2 13 55 | APRIL | 25 10 33 | 25 8 16 |
| | MAY . | 28 8 7 | 28 14 53 | | MAY . | 24 23 17 | 24 23 36 |
| | JUNE . | 26 20 51 | 26 22 21 | | JUNE . | 23 12 1 | 23 14 52 |
| | JULY . | 26 9 35 | 26 5 47 | | JULY . | 23 0 45 | 23 5 29 |
| | AUG. . | 24 22 19 | 24 14 9 | | AUG. . | 21 13 29 | 21 19 6 |
| | SEPT. . | 23 11 3 | 23 0 12 | | SEPT. . | 20 2 13 | 20 7 46 |
| | OCT. . | 22 23 47 | 22 12 26 | | OCT. . | 19 14 57 | 19 19 39 |
| | NOV. . | 21 12 31 | 21 2 53 | | NOV. . | 18 3 41 | 18 6 58 |
| | DEC. . | 21 1 15 | 20 19 29 | | DEC. . | 17 16 25 | 17 17 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|--|---|---|---|--|
| B.C. 1376. G. April. <i>d. h. m.</i> 2 19 43 | [*] JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 16 5 9 14 17 53 16 6 38 14 19 22 14 8 6 12 20 50 12 9 34 10 22 18 9 11 2 8 23 46 7 12 30 7 1 14 | <i>d. h. m.</i> 16 4 9 14 14 18 16 0 46 14 12 9 14 1 1 12 15 29 12 7 13 10 23 33 9 15 37 9 6 50 7 20 44 7 9 13 | B.C. 1373. D.C. April. <i>d. h. m.</i> 2 13 10 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 13 20 20 12 9 4 12 21 48 11 10 32 10 23 16 9 12 0 9 0 44 7 13 28 6 2 12 5 14 56 4 3 40 3 16 24 | <i>d. h. m.</i> 14 9 39 12 22 9 13 7 57 11 15 46 10 22 34 9 5 25 8 13 26 6 23 39 5 12 48 5 5 0 3 23 35 3 19 12 |
| 1375. F. 3 1 32 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 5 13 59 4 2 43 5 15 27 4 4 11 3 16 55 2 5 39 { 1 18 23 31 7 7 29 19 51 28 8 35 27 21 19 26 10 3 25 22 47 | 5 20 14 4 5 54 5 14 41 3 23 14 3 8 27 1 19 16 1 8 18 30 23 42 29 16 54 28 10 52 28 4 23 26 20 26 26 10 18 | 1372. B. 2 18 59 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 2 5 8 31 17 52 ... { 2 6 37 31 19 21 30 8 5 29 20 49 28 9 33 27 22 17 26 11 1 24 23 45 24 12 29 23 1 13 22 13 57 | 2 14 5 1 6 49 2 20 33 { 1 7 15 30 15 36 29 22 37 28 5 25 27 13 3 25 22 31 24 10 32 24 1 21 22 18 43 22 18 32 |
| 1374. E. 3 7 21 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 24 11 31 23 0 15 24 12 59 23 1 43 22 14 27 21 3 11 20 15 55 19 4 39 17 17 23 17 6 7 15 13 51 15 7 35 | 24 21 51 23 7 20 24 15 18 22 22 37 22 6 17 20 15 23 20 2 53 18 17 17 17 10 23 17 5 15 16 0 22 15 18 14 | 1371. A. 3 0 43 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 21 2 41 19 15 25 21 4 9 19 16 53 19 5 37 17 18 21 17 7 5 15 19 49 14 8 33 13 21 17 12 10 1 11 22 45 | 21 8 25 20 1 50 21 16 45 20 4 49 19 14 24 17 22 24 17 5 51 15 13 50 13 28 7 13 10 19 11 23 42 11 15 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---|--|--|---|---|---|--|
| B.C. 1370. G. April. <i>d. h. m.</i> 3 6 36 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 10 11 29 9 0 13 10 12 58 9 1 42 8 14 26 7 3 10 6 15 54 5 4 33 3 17 22 3 6 6 1 18 50 { 1 7 34 30 20 18 | <i>d. h. m.</i> 10 8 13 9 1 53 10 19 7 9 10 50 9 0 26 7 11 47 6 21 30 5 6 22 3 15 17 3 0 59 { 1 11 46 30 23 52 30 13 16 | B.C. 1367. C. April. <i>d. h. m.</i> 3 0 3 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 7 2 40 5 15 24 7 4 8 5 16 52 5 5 36 3 18 20 3 7 4 { 1 19 48 31 8 32 29 21 16 29 10 0 27 22 44 27 11 28 | <i>d. h. m.</i> 7 3 23 5 13 23 6 23 21 5 9 54 4 21 46 3 11 20 3 2 33 1 18 50 31 11 23 30 3 23 29 18 13 28 7 34 27 19 15 |
| 1369. F.E. 2 12 25 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 29 9 2 27 21 46 28 10 31 26 23 15 26 11 59 25 0 43 24 13 27 23 2 11 21 14 55 21 3 39 19 16 23 19 5 7 | 29 3 53 27 19 29 28 11 33 27 3 20 26 18 8 25 7 32 24 19 30 23 6 26 21 16 55 21 3 25 19 14 13 19 1 18 | 1366. B. 3 5 52 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 26 0 12 24 12 56 26 1 40 24 14 24 24 3 8 22 15 52 22 4 36 20 17 20 19 6 4 18 18 48 17 7 32 16 20 16 | 26 5 26 24 14 25 25 22 45 24 7 18 23 17 4 22 4 53 21 19 10 20 11 41 19 5 37 18 23 44 17 16 49 17 7 54 |
| 1368. D. 2 13 14 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 17 17 51 16 6 35 17 19 19 16 8 3 15 20 47 14 9 31 13 22 15 12 10 59 10 23 43 10 12 27 9 1 11 8 13 55 | 17 12 49 16 0 57 17 14 0 16 4 7 15 19 8 14 10 33 14 1 43 12 16 8 11 5 33 10 13 4 9 5 49 8 16 54 | 1365. A.G. 2 11 41 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 15 9 0 13 21 44 14 10 29 12 23 13 12 11 57 11 0 41 10 13 25 9 2 9 7 14 53 7 3 37 5 16 21 5 5 5 | 15 20 34 14 6 55 14 15 25 12 22 47 12 6 1 10 14 12 10 0 23 8 13 21 7 5 17 6 23 33 5 13 52 5 13 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1364. F. April. <i>d. h. m.</i> 2 17 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1361. C.B. April. <i>d. h. m.</i> 2 10 56 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 3 17 49 | 4 6 22 | | JAN. . | { 1 8 59 30 21 48 | 1 8 84 30 20 47 |
| | FEB. . | 2 6 33 | 2 20 16 | | FEB. . | 29 10 28 | 29 14 11 |
| | MAR. . | 3 19 18 | 4 7 17 | | MAR. . | 29 23 12 | 30 6 37 |
| | APRIL | 2 8 2 | 2 15 53 | | APRIL | 28 11 56 | 28 21 16 |
| | MAY . | { 1 20 46 31 9 30 | 1 22 59 31 5 37 | | MAY . | 28 0 40 | 28 9 48 |
| | JUNE . | 29 22 14 | 29 12 56 | | JUNE . | 26 13 24 | 26 20 25 |
| | JULY . | 29 10 58 | 28 22 0 | | JULY . | 26 2 8 | 26 5 50 |
| | AUG. . | 27 23 42 | 27 9 42 | | AUG. . | 24 14 52 | 24 14 52 |
| | SEPT. . | 26 12 26 | 26 0 29 | | SEPT. . | 23 3 36 | 23 0 18 |
| | OCT. . | 26 1 10 | 25 18 3 | | OCT. . | 22 16 20 | 22 10 38 |
| | NOV. . | 24 13 54 | 24 13 22 | | NOV. . | 21 5 4 | 20 22 5 |
| | DEC. . | 24 2 38 | 24 8 47 | | DEC. . | 20 17 48 | 20 10 41 |
| 1363. E. 2 23 13 | JAN. . | 22 15 22 | 23 2 41 | 1360. A. 2 16 45 | JAN. . | 19 6 32 | 19 0 28 |
| | FEB. . | 21 4 6 | 21 17 52 | | FEB. . | 17 19 16 | 17 15 19 |
| | MAR. . | 22 16 50 | 23 5 53 | | MAR. . | 19 8 0 | 19 6 57 |
| | APRIL | 21 5 34 | 21 15 21 | | APRIL | 17 20 44 | 17 22 47 |
| | MAY . | 20 18 18 | 20 22 54 | | MAY . | 17 9 28 | 17 14 9 |
| | JUNE . | 19 7 2 | 19 5 43 | | JUNE . | 15 22 12 | 16 4 24 |
| | JULY . | 18 19 46 | 18 12 55 | | JULY . | 15 10 56 | 15 17 16 |
| | AUG. . | 17 8 30 | 16 21 29 | | AUG. . | 13 23 40 | 14 4 55 |
| | SEPT. . | 15 21 14 | 15 8 15 | | SEPT. . | 12 12 24 | 12 15 50 |
| | OCT. . | 15 9 58 | 14 21 43 | | OCT. . | 12 1 8 | 12 2 30 |
| | NOV. . | 13 22 42 | 13 13 52 | | NOV. . | 10 13 52 | 10 13 15 |
| | DEC. . | 13 11 26 | 13 8 1 | | DEC. . | 10 2 36 | 10 0 9 |
| 1362. D. 3 5 7 | JAN. . | 12 0 10 | 12 2 54 | 1359. G. 2 22 34 | JAN. . | 8 15 21 | 8 11 17 |
| | FEB. . | 10 12 54 | 10 21 2 | | FEB. . | 7 4 5 | 6 22 43 |
| | MAR. . | 12 1 39 | 12 13 13 | | MAR. . | 8 16 49 | 8 11 3 |
| | APRIL | 10 14 23 | 11 2 40 | | APRIL | 7 5 33 | 7 0 22 |
| | MAY . | 10 3 7 | 10 13 26 | | MAY . | 6 18 17 | 6 14 43 |
| | JUNE . | 8 15 51 | 8 22 12 | | JUNE . | 5 7 1 | 5 6 4 |
| | JULY . | 8 4 35 | 8 5 56 | | JULY . | 4 19 45 | 4 21 33 |
| | AUG. . | 6 17 19 | 6 13 42 | | AUG. . | 3 8 29 | 3 12 33 |
| | SEPT. . | 5 6 3 | 4 22 26 | | SEPT. . | 1 21 13 | 2 2 52 |
| | OCT. . | 4 18 47 | 4 8 45 | | OCT. . | { 1 9 57 30 22 41 | 1 16 7 31 4 26 |
| | NOV. . | 3 7 31 | 2 21 3 | | NOV. . | 29 11 25 | 29 15 55 |
| | DEC. . | 2 20 15 | 2 11 25 | | DEC. . | 29 0 9 | 29 2 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|-----------------------|-----------------------|---|---------|----------------------|----------------------|
| B.C. 1358. F. April. <i>d. h. m.</i> 3 4 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1355. B. April. <i>d. h. m.</i> 2 21 49 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 12 53 | 27 12 39 | | JAN. . | 24 4 4 | 24 17 45 |
| | FEB. . | 26 1 37 | 25 22 18 | | FEB. . | 22 16 48 | 23 6 5 |
| | MAR. . | 27 14 22 | 27 8 13 | | MAR. . | 24 5 32 | 24 15 41 |
| | APRIL | 26 3 6 | 25 19 8 | | APRIL | 22 18 16 | 22 23 19 |
| | MAY . | 25 15 50 | 25 7 40 | | MAY . | 22 7 0 | 22 6 0 |
| | JUNE . | 24 4 34 | 23 22 3 | | JUNE . | 20 19 44 | 20 12 52 |
| | JULY . | 23 17 18 | 23 14 0 | | JULY . | 20 8 23 | 19 20 53 |
| | AUG. . | 22 6 2 | 22 6 45 | | AUG. . | 18 21 12 | 18 7 21 |
| | SEPT. . | 20 18 46 | 20 23 24 | | SEPT. . | 17 9 56 | 16 20 40 |
| | OCT. . | 20 7 30 | 20 15 9 | | OCT. . | 16 22 40 | 16 12 53 |
| | NOV. . | 18 20 14 | 19 5 26 | | NOV. . | 15 11 24 | 15 7 36 |
| | DEC. . | 18 8 53 | 18 18 0 | | DEC. . | 15 0 8 | 15 3 8 |
| 1357. E.D. 2 10 11 | JAN. . | 16 21 42 | 17 4 51 | 1354. A. 3 3 38 | JAN. . | 13 12 52 | 13 21 54 |
| | FEB. . | 15 10 26 | 15 14 11 | | FEB. . | 12 1 36 | 12 14 27 |
| | MAR. . | 15 23 10 | 15 22 33 | | MAR. . | 13 14 20 | 14 4 2 |
| | APRIL | 14 11 54 | 14 6 40 | | APRIL | 12 3 4 | 12 14 38 |
| | MAY . | 14 0 38 | 13 15 32 | | MAY . | 11 15 43 | 11 22 53 |
| | JUNE . | 12 13 22 | 12 2 8 | | JUNE . | 10 4 32 | 10 6 4 |
| | JULY . | 12 2 6 | 11 15 9 | | JULY . | 9 17 16 | 9 13 2 |
| | AUG. . | 10 14 50 | 10 6 43 | | AUG. . | 8 6 0 | 7 20 56 |
| | SEPT. . | 9 3 34 | 9 0 15 | | SEPT. . | 6 18 44 | 6 6 39 |
| | OCT. . | 8 16 18 | 8 13 39 | | OCT. . | 6 7 28 | 5 18 43 |
| | NOV. . | 7 5 2 | 7 12 35 | | NOV. . | 4 20 12 | 4 9 39 |
| | DEC. . | 6 17 46 | 7 4 53 | | DEC. . | 4 8 56 | 4 2 49 |
| 1356. C. 2 16 0 | JAN. . | 5 6 30 | 5 13 47 | 1353. G.F. 2 9 27 | JAN. . | 2 21 40 | 2 21 21 |
| | FEB. . | 3 19 14 | 4 6 11 | | FEB. . | 1 10 24 | 1 15 52 |
| | MAR. . | 5 7 59 | 5 15 22 | | MAR. . | { 1 23 9 | 2 9 1 |
| | APRIL | 3 20 43 | 3 23 2 | | | { 31 11 53 | 31 23 43 |
| | MAY . | 3 9 27 | 3 6 5 | | APRIL | 30 0 37 | 30 11 53 |
| | JUNE . | 1 22 11 | { 1 13 33 30 22 36 | | MAY . | 29 13 21 | 29 21 36 |
| | JULY . | { 1 10 55 30 23 39 | 30 10 9 | | JUNE . | 28 2 5 | 28 5 51 |
| | AUG. . | 29 12 23 | 29 0 42 | | JULY . | 27 14 49 | 27 13 41 |
| | SEPT. . | 28 1 7 | 27 18 2 | | AUG. . | 26 3 33 | 25 22 2 |
| | OCT. . | 27 13 51 | 27 13 7 | | SEPT. . | 24 16 17 | 24 7 39 |
| | NOV. . | 26 2 35 | 26 8 23 | | OCT. . | 24 5 1 | 23 18 59 |
| | DEC. . | 25 15 19 | 26 2 23 | | NOV. . | 22 17 45 | 22 8 18 |
| | | | | | DEC. . | 22 6 29 | 21 23 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| B.C. 1352. E. April. <i>d. h. m.</i> 2 15 15 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1349. B.A. April. <i>d. h. m.</i> 2 8 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 20 19 13 | 20 15 58 | | JAN. . | 18 10 23 | 18 12 1 |
| | FEB. . | 19 7 57 | 19 9 8 | | FEB. . | 16 23 7 | 16 21 34 |
| | MAR. . | 20 20 41 | 21 1 57 | | MAR. . | 17 11 51 | 17 7 0 |
| | APRIL | 19 9 25 | 19 17 30 | | APRIL | 16 0 35 | 15 17 4 |
| | MAY . | 18 22 9 | 19 7 10 | | MAY . | 15 13 19 | 15 4 33 |
| | JUNE . | 17 10 53 | 17 18 51 | | JUNE . | 14 2 3 | 13 17 56 |
| | JULY . | 16 23 37 | 17 4 58 | | JULY . | 13 14 47 | 13 9 18 |
| | AUG. . | 15 12 21 | 15 14 19 | | AUG. . | 12 3 31 | 12 1 50 |
| | SEPT. . | 14 1 5 | 13 23 43 | | SEPT. . | 10 16 15 | 10 18 55 |
| | OCT. . | 13 13 49 | 13 9 44 | | OCT. . | 10 4 59 | 10 11 29 |
| | NOV. . | 12 2 33 | 11 20 39 | | NOV. . | 8 17 43 | 9 2 45 |
| | DEC. . | 11 15 17 | 11 8 35 | | DEC. . | 8 6 27 | 8 16 18 |
| 1351. D. 2 21 4 | JAN. . | 10 4 2 | 9 21 35 | 1348. G. 2 14 31 | JAN. . | 6 19 11 | 7 3 56 |
| | FEB. . | 8 16 46 | 8 11 37 | | FEB. . | 5 7 56 | 5 13 52 |
| | MAR. . | 10 5 30 | 10 2 37 | | MAR. . | 6 20 40 | 6 22 27 |
| | APRIL | 8 18 14 | 8 18 12 | | APRIL | 5 9 24 | 5 6 22 |
| | MAY . | 8 6 58 | 8 9 47 | | MAY . | 4 22 8 | 4 14 34 |
| | JUNE . | 6 19 42 | 7 0 43 | | JUNE . | 3 10 52 | 3 0 5 |
| | JULY . | 6 8 26 | 6 14 28 | | JULY . | 2 23 36 | 2 11 47 |
| | AUG. . | 4 21 10 | 5 2 58 | | AUG. . | 1 12 20 | 1 2 9 |
| | SEPT. . | 3 9 54 | 3 14 29 | | | 31 1 4 | 30 18 56 |
| | OCT. . | 2 22 38 | 3 1 29 | | SEPT. . | 29 13 48 | 29 13 15 |
| | NOV. . | 1 11 22 | 1 12 19 | | OCT. . | 29 2 32 | 29 7 47 |
| | | | 30 23 10 | | NOV. . | 27 15 16 | 28 1 10 |
| | DEC. . | 1 0 6 | | | DEC. . | 27 4 0 | 27 16 28 |
| | | 30 12 50 | 30 10 2 | | | | |
| 1350. C. 3 2 53 | JAN. . | 29 1 34 | 28 21 6 | 1347. F. 2 20 20 | JAN. . | 25 16 45 | 26 4 53 |
| | FEB. . | 27 14 18 | 27 8 38 | | FEB. . | 24 5 29 | 24 15 3 |
| | MAR. . | 29 3 3 | 28 21 6 | | MAR. . | 25 18 13 | 25 23 14 |
| | APRIL | 27 15 47 | 27 10 46 | | APRIL | 24 6 57 | 24 6 20 |
| | MAY . | 27 4 31 | 27 1 36 | | MAY . | 23 19 41 | 23 13 22 |
| | JUNE . | 25 17 15 | 25 17 6 | | JUNE . | 22 8 25 | 21 21 28 |
| | JULY . | 25 5 59 | 25 8 39 | | JULY . | 21 21 9 | 21 7 40 |
| | AUG. . | 23 18 43 | 23 23 37 | | AUG. . | 20 9 53 | 19 20 46 |
| | SEPT. . | 22 7 27 | 22 13 40 | | SEPT. . | 18 22 37 | 18 12 53 |
| | OCT. . | 21 20 11 | 22 2 43 | | OCT. . | 18 11 21 | 18 7 21 |
| | NOV. . | 20 8 55 | 20 14 43 | | NOV. . | 17 0 5 | 17 2 52 |
| | DEC. . | 19 21 39 | 20 1 43 | | DEC. . | 16 12 49 | 16 21 43 |

JERUSALEM CIVIL TIME.

| Mean ernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 3.C. 346. E. April. h. m. 2 8 | JAN. . | 15 1 33 | 15 14 26 | B.C. 1343. A. April. d. h. m. 2 19 35 | JAN. . | 11 16 43 | 11 11 32 |
| | FEB. . | 13 14 17 | 14 4 13 | | FEB. . | 10 5 27 | 10 4 13 |
| | MAR. . | 15 3 1 | 15 15 1 | | MAR. . | 11 18 11 | 11 21 6 |
| | APRIL | 13 15 45 | 13 23 27 | | APRIL | 10 6 55 | 10 13 16 |
| | MAY . | 13 4 29 | 13 6 25 | | MAY . | 9 19 39 | 10 3 56 |
| | JUNE . | 11 17 13 | 11 13 4 | | JUNE . | 8 8 23 | 8 16 41 |
| | JULY . | 11 5 57 | 10 20 23 | | JULY . | 7 21 7 | 8 3 42 |
| | AUG. . | 9 18 41 | 9 5 42 | | AUG. . | 6 9 51 | 6 13 35 |
| | SEPT. . | 8 7 25 | 7 17 33 | | SEPT. . | 4 22 35 | 4 23 8 |
| | OCT. . | 7 20 9 | 7 8 27 | | OCT. . | 4 11 19 | 4 8 59 |
| | NOV. . | 6 8 53 | 6 2 5 | | NOV. . | 3 0 3 | 2 19 31 |
| | DEC. . | 5 21 37 | 5 21 19 | | DEC. . | 2 12 47 | { 2 6 55 31 19 12 |
| 1345. D.C. 2 7 57 | JAN. . | 4 10 22 | 4 16 36 | 1342. G. 3 1 24 | JAN. . | { 1 1 31 30 14 15 | 30 8 26 |
| | FEB. . | 2 23 6 | 3 10 19 | | FEB. . | ... | 28 22 41 |
| | MAR. . | 3 11 50 | 4 1 21 | | MAR. . | { 1 3 0 30 15 44 | 30 13 46 |
| | APRIL | 2 0 34 | 2 13 20 | | APRIL | 29 4 28 | 29 5 19 |
| | MAY . | { 1 13 18 31 2 2 | 1 22 41 31 6 18 | | MAY . | 23 17 12 | 23 20 38 |
| | JUNE . | 29 14 46 | 29 13 18 | | JUNE . | 27 5 56 | 27 11 9 |
| | JULY . | 29 3 30 | 23 20 44 | | JULY . | 26 13 40 | 27 0 31 |
| | AUG. . | 27 16 14 | 27 5 36 | | AUG. . | 25 7 24 | 25 12 46 |
| | SEPT. . | 26 4 58 | 25 16 35 | | SEPT. . | 23 20 8 | 24 0 15 |
| | OCT. . | 25 17 42 | 25 6 7 | | OCT. . | 23 8 52 | 23 11 19 |
| | NOV. . | 24 6 26 | 23 22 8 | | NOV. . | 21 21 36 | 21 22 18 |
| | DEC. . | 23 19 10 | 23 15 59 | | DEC. . | 21 10 20 | 21 9 1 |
| 1344. B. 2 13 46 | JAN. . | 22 7 54 | 22 10 28 | 1341. F.E. 2 7 13 | JAN. . | 19 23 5 | 19 19 47 |
| | FEB. . | 20 20 33 | 21 4 17 | | FEB. . | 18 11 49 | 18 6 46 |
| | MAR. . | 22 9 23 | 22 20 15 | | MAR. . | 19 0 33 | 18 18 24 |
| | APRIL | 20 22 7 | 21 9 39 | | APRIL | 17 13 17 | 17 7 12 |
| | MAY . | 20 10 51 | 20 20 32 | | MAY . | 17 2 1 | 16 21 19 |
| | JUNE . | 18 23 35 | 19 5 32 | | JUNE . | 15 14 45 | 15 12 32 |
| | JULY . | 18 12 19 | 18 13 37 | | JULY . | 15 3 29 | 15 4 18 |
| | AUG. . | 17 1 3 | 16 21 43 | | AUG. . | 13 16 13 | 13 19 52 |
| | SEPT. . | 15 13 47 | 15 6 52 | | SEPT. . | 12 4 57 | 12 10 44 |
| | OCT. . | 15 2 31 | 14 17 26 | | OCT. . | 11 17 41 | 12 0 33 |
| | NOV. . | 13 15 15 | 13 5 44 | | NOV. . | 10 6 25 | 10 13 15 |
| | DEC. . | 13 3 59 | 12 19 51 | | DEC. . | 9 19 9 | 10 0 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1346. E. April. <i>d. h. m.</i> 8 2 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1343. A. April. <i>d. h. m.</i> 2 19 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 1 33 | 15 14 26 | | JAN. . | 11 16 43 | 11 11 32 |
| | FEB. . | 13 14 17 | 14 4 13 | | FEB. . | 10 5 27 | 10 4 13 |
| | MAR. . | 15 3 1 | 15 15 1 | | MAR. . | 11 18 11 | 11 21 6 |
| | APRIL | 13 15 45 | 13 23 27 | | APRIL | 10 6 55 | 10 13 16 |
| | MAY . | 13 4 29 | 13 6 25 | | MAY . | 9 19 39 | 10 3 56 |
| | JUNE . | 11 17 13 | 11 13 4 | | JUNE . | 8 8 23 | 8 16 41 |
| | JULY . | 11 5 57 | 10 20 28 | | JULY . | 7 21 7 | 8 3 42 |
| | AUG. . | 9 18 41 | 9 5 42 | | AUG. . | 6 9 51 | 6 13 35 |
| | SEPT. . | 8 7 25 | 7 17 33 | | SEPT. . | 4 22 35 | 4 23 8 |
| | OCT. . | 7 20 9 | 7 8 27 | | OCT. . | 4 11 19 | 4 8 59 |
| | NOV. . | 6 8 53 | 6 2 5 | | NOV. . | 3 0 3 | 2 19 31 |
| | DEC. . | 5 21 37 | 5 21 19 | | DEC. . | 2 12 47 | { 2 6 55 31 19 12 |
| 1345. D.C. 2 7 57 | JAN. . | 4 10 22 | 4 16 36 | 1342. G. 3 1 24 | JAN. . | { 1 1 31 30 14 15 | 30 8 26 |
| | FEB. . | 2 23 6 | 3 10 19 | | FEB. . | ... | 28 22 41 |
| | MAR. . | 3 11 50 | 4 1 21 | | MAR. . | { 1 3 0 30 15 44 | 30 13 46 |
| | APRIL | 2 0 34 | 2 13 20 | | APRIL | 29 4 28 | 29 5 19 |
| | MAY . | { 1 13 18 31 2 2 | 1 22 41 31 6 18 | | MAY . | 23 17 12 | 23 20 38 |
| | JUNE . | 29 14 46 | 29 13 18 | | JUNE . | 27 5 56 | 27 11 9 |
| | JULY . | 29 3 30 | 28 20 44 | | JULY . | 26 18 40 | 27 0 31 |
| | AUG. . | 27 16 14 | 27 5 36 | | AUG. . | 25 7 24 | 25 12 46 |
| | SEPT. . | 26 4 58 | 25 16 35 | | SEPT. . | 23 20 8 | 24 0 15 |
| | OCT. . | 25 17 42 | 25 6 7 | | OCT. . | 23 8 52 | 23 11 19 |
| | NOV. . | 24 6 26 | 23 22 8 | | NOV. . | 21 21 36 | 21 22 13 |
| | DEC. . | 23 19 10 | 23 15 59 | | DEC. . | 21 10 20 | 21 9 1 |
| 1344. H. 2 13 46 | JAN. . | 22 7 54 | 22 10 28 | 1341. F.E. 2 7 13 | JAN. . | 19 23 5 | 19 19 47 |
| | FEB. . | 20 20 38 | 21 4 17 | | FEB. . | 18 11 49 | 18 6 46 |
| | MAR. . | 22 9 23 | 22 20 15 | | MAR. . | 19 0 33 | 18 18 24 |
| | APRIL | 20 22 7 | 21 9 39 | | APRIL | 17 13 17 | 17 7 12 |
| | MAY . | 20 10 51 | 20 20 32 | | MAY . | 17 2 1 | 16 21 19 |
| | JUNE . | 18 23 35 | 19 5 32 | | JUNE . | 15 14 45 | 15 12 32 |
| | JULY . | 18 12 19 | 18 13 37 | | JULY . | 15 3 29 | 15 4 18 |
| | AUG. . | 17 1 3 | 16 21 48 | | AUG. . | 13 16 13 | 13 19 52 |
| | SEPT. . | 15 13 47 | 15 6 52 | | SEPT. . | 12 4 57 | 12 10 44 |
| | OCT. . | 15 2 31 | 14 17 26 | | OCT. . | 11 17 41 | 12 0 33 |
| | NOV. . | 13 15 15 | 13 5 44 | | NOV. . | 10 6 25 | 10 13 15 |
| | DEC. . | 13 3 59 | 12 19 51 | | DEC. . | 9 19 9 | 10 0 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|----------------------------|---------|----------------------|----------------------|----------------------------|---------|----------------------|-----------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1340. | JAN. . | 8 7 53 | 8 11 23 | 1337. | JAN. . | 5 23 3 | 6 10 24 |
| D. | FEB. . | 6 20 37 | 6 21 1 | A.G. | FEB. . | 4 11 47 | 5 1 39 |
| April. | MAR. . | 8 9 21 | 8 6 11 | April. | MAR. . | 5 0 31 | 5 13 50 |
| <i>d. h. m.</i> | APRIL | 6 22 5 | 6 15 34 | <i>d. h. m.</i> | APRIL | 3 13 15 | 3 23 16 |
| 2 13 1 | MAY . | 6 10 49 | 6 2 3 | 2 6 27 | MAY . | 3 1 59 | 3 6 46 |
| | JUNE . | 4 23 33 | 4 14 19 | | JUNE . | 1 14 43 | { 1 13 26 30 20 23 |
| | JULY . | 4 12 17 | 4 4 42 | | JULY . | { 1 3 27 30 16 11 | 30 4 40 |
| | AUG. . | 3 1 1 | 2 20 52 | | AUG. . | 29 4 55 | 28 15 13 |
| | SEPT. . | 1 13 45 | 1 14 4 | | SEPT. . | 27 17 39 | 27 4 39 |
| | OCT. . | { 1 2 29 30 15 13 | 1 7 15 30 23 30 | | OCT. . | 27 6 23 | 26 21 2 |
| | NOV. . | 29 3 57 | 29 14 6 | | NOV. . | 25 19 7 | 25 15 36 |
| | DEC. . | 28 16 41 | 29 2 42 | | DEC. . | 25 7 51 | 25 10 59 |
| 1339. | JAN. . | 27 5 25 | 27 13 20 | 1336. | JAN. . | 23 20 35 | 24 5 32 |
| C. | FEB. . | 25 18 9 | 25 22 20 | F. | FEB. . | 22 9 19 | 22 21 54 |
| | MAR. . | 27 6 54 | 27 6 19 | | MAR. . | 23 22 4 | 24 11 22 |
| 2 18 50 | APRIL | 25 19 38 | 25 14 4 | 2 12 16 | APRIL | 22 10 43 | 22 21 55 |
| | MAY . | 25 8 22 | 24 22 39 | | MAY . | 21 23 32 | 22 6 18 |
| | JUNE . | 23 21 6 | 23 9 6 | | JUNE . | 20 12 16 | 20 13 34 |
| | JULY . | 23 9 50 | 22 22 8 | | JULY . | 20 1 0 | 19 20 47 |
| | AUG. . | 21 22 34 | 21 13 53 | | AUG. . | 18 13 44 | 18 4 58 |
| | SEPT. . | 20 11 13 | 20 7 45 | | SEPT. . | 17 2 23 | 16 14 57 |
| | OCT. . | 20 0 2 | 20 2 33 | | OCT. . | 16 15 12 | 16 3 15 |
| | NOV. . | 18 12 46 | 18 20 49 | | NOV. . | 15 3 56 | 14 18 2 |
| | DEC. . | 18 1 30 | 18 13 17 | | DEC. . | 14 16 40 | 14 10 57 |
| 1338. | JAN. . | 16 14 14 | 17 3 9 | 1335. | JAN. . | 13 5 24 | 13 5 4 |
| B. | FEB. . | 15 2 58 | 15 14 21 | E. | FEB. . | 11 18 8 | 11 23 12 |
| | MAR. . | 16 15 42 | 16 23 15 | | MAR. . | 13 6 52 | 13 16 8 |
| 3 0 39 | APRIL | 15 4 26 | 15 6 38 | 2 18 5 | APRIL | 11 19 36 | 12 6 48 |
| | MAY . | 14 17 10 | 14 13 28 | | MAY . | 11 8 20 | 11 18 53 |
| | JUNE . | 13 5 54 | 12 20 51 | | JUNE . | 9 21 4 | 10 4 48 |
| | JULY . | 12 18 38 | 12 5 54 | | JULY . | 9 9 48 | 9 13 2 |
| | AUG. . | 11 7 22 | 10 17 33 | | AUG. . | 7 22 32 | 7 21 3 |
| | SEPT. . | 9 20 6 | 9 8 15 | | SEPT. . | 6 11 16 | 6 6 2 |
| | OCT. . | 9 8 50 | 9 1 47 | | OCT. . | 6 0 0 | 5 16 1 |
| | NOV. . | 7 21 34 | 7 21 3 | | NOV. . | 4 12 44 | 4 3 4 |
| | DEC. . | 7 10 18 | 7 16 23 | | DEC. . | 4 1 28 | 3 16 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1334. D. | JAN. . | 2 14 12 | { 2 7 36 81 23 36 | B.C. 1331. G. | JAN. . | 28 18 7 | 28 20 33 |
| April. | FEB. . | 1 2 56 | ... | April. | FEB. . | 27 6 51 | 27 5 38 |
| <i>d. h. m.</i> | MAR. . | 2 15 41 | 2 16 15 | <i>d. h. m.</i> | MAR. . | 28 19 35 | 28 14 34 |
| 2 23 54 | APRIL | { 1 4 25 80 17 9 | 1 8 43 | 2 17 20 | APRIL | 27 8 19 | 27 0 11 |
| | MAY . | 30 5 53 | { 1 0 8 80 13 55 | | MAY . | 26 21 3 | 26 11 21 |
| | JUNE . | 28 18 37 | 29 1 55 | | JUNE . | 25 9 47 | 25 0 36 |
| | JULY . | 28 7 21 | 28 12 32 | | JULY . | 24 22 31 | 24 16 0 |
| | AUG. . | 26 20 5 | 26 22 25 | | AUG. . | 23 11 15 | 23 8 59 |
| | SEPT. . | 25 8 49 | 25 8 16 | | SEPT. . | 21 23 59 | 22 2 35 |
| | OCT. . | 24 21 33 | 24 18 35 | | OCT. . | 21 12 43 | 21 19 39 |
| | NOV. . | 23 10 17 | 23 5 34 | | NOV. . | 20 1 27 | 20 11 18 |
| | DEC. . | 22 23 1 | 22 17 17 | | DEC. . | 19 14 11 | 20 0 59 |
| 1333. C.B. | JAN. . | 21 11 46 | 21 5 48 | 1330. F. | JAN. . | 18 2 55 | 18 12 32 |
| 2 5 43 | FEB. . | 20 0 30 | 19 19 14 | | FEB. . | 16 15 39 | 16 22 8 |
| | MAR. . | 20 18 14 | 20 9 38 | 2 23 9 | MAR. . | 18 4 24 | 18 6 20 |
| | APRIL | 19 1 53 | 19 0 49 | | APRIL | 16 17 8 | 16 13 54 |
| | MAY . | 18 14 42 | 18 16 16 | | MAY . | 16 5 52 | 15 21 48 |
| | JUNE . | 17 3 26 | 17 7 20 | | JUNE . | 14 18 36 | 14 7 8 |
| | JULY . | 16 16 10 | 16 21 30 | | JULY . | 14 7 20 | 13 18 48 |
| | AUG. . | 15 4 54 | 15 10 34 | | AUG. . | 12 20 4 | 12 9 16 |
| | SEPT. . | 13 17 33 | 13 22 41 | | SEPT. . | 11 8 43 | 11 2 20 |
| | OCT. . | 13 6 22 | 13 10 10 | | OCT. . | 10 21 32 | 10 21 1 |
| | NOV. . | 11 19 6 | 11 21 16 | | NOV. . | 9 10 16 | 9 15 52 |
| | DEC. . | 11 7 50 | 11 8 7 | | DEC. . | 8 23 0 | 9 9 29 |
| 1332. A. | JAN. . | 9 20 34 | 9 18 43 | 1329. E.D. | JAN. . | 7 11 44 | 8 0 44 |
| 2 11 32 | FEB. . | 8 9 18 | 8 5 17 | | FEB. . | 6 0 28 | 6 13 10 |
| | MAR. . | 9 22 2 | 9 16 14 | 2 4 53 | MAR. . | 6 13 12 | 6 23 1 |
| | APRIL | 8 10 46 | 8 4 8 | | APRIL | 5 1 56 | 5 6 54 |
| | MAY . | 7 23 30 | 7 17 23 | | MAY . | 4 14 40 | 4 13 47 |
| | JUNE . | 6 12 14 | 6 8 2 | | JUNE . | 3 3 24 | 2 20 43 |
| | JULY . | 6 0 53 | 5 23 41 | | JULY . | 2 16 8 | { 2 4 48 31 15 6 |
| | AUG. . | 4 13 42 | 4 15 40 | | AUG. . | { 1 4 52 30 17 36 | 30 4 19 |
| | SEPT. . | 3 2 26 | 3 7 13 | | SEPT. . | 29 6 20 | 28 20 36 |
| | OCT. . | 2 15 10 | 2 21 53 | | OCT. . | 28 19 4 | 28 15 15 |
| | NOV. . | { 1 3 54 30 16 38 | 1 11 22 30 23 37 | | NOV. . | 27 7 43 | 27 10 50 |
| | DEC. . | 30 5 22 | 30 10 37 | | DEC. . | 26 20 32 | 27 5 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1328. c. April. d. h. m. 2 10 47 | | d. h. m. | d. h. m. | B.C. 1325. G.F. April. d. h. m. 2 4 13 | | d. h. m. | d. h. m. |
| | JAN. . | 25 9 16 | 25 22 20 | | JAN. . | 23 0 26 | 22 19 24 |
| | FEB. . | 23 22 0 | 24 11 58 | | FEB. . | 21 13 10 | 21 11 30 |
| | MAR. . | 25 10 45 | 25 22 38 | | MAR. . | 22 1 55 | 22 3 59 |
| | APRIL | 23 23 29 | 24 6 55 | | APRIL | 20 14 39 | 20 19 53 |
| | MAY . | 23 12 13 | 23 13 52 | | MAY . | 20 3 23 | 20 10 33 |
| | JUNE . | 22 0 57 | 21 20 34 | | JUNE . | 18 16 7 | 18 23 35 |
| | JULY . | 21 13 41 | 21 4 9 | | JULY . | 18 4 51 | 18 11 4 |
| | AUG. . | 20 2 25 | 19 13 34 | | AUG. . | 16 17 35 | 16 21 29 |
| | SEPT. . | 18 15 9 | 18 1 36 | | SEPT. . | 15 6 19 | 15 7 31 |
| | OCT. . | 18 3 53 | 17 16 35 | | OCT. . | 14 19 3 | 14 17 46 |
| | NOV. . | 16 16 37 | 16 10 9 | | NOV. . | 13 7 47 | 13 4 23 |
| | DEC. . | 16 5 21 | 16 5 14 | | DEC. . | 12 20 31 | 12 15 46 |
| 1327. B. | JAN. . | 14 18 6 | 15 0 18 | 1324. E. | JAN. . | 11 9 15 | 11 3 38 |
| | FEB. . | 13 6 50 | 13 17 47 | | FEB. . | 9 21 59 | 9 16 13 |
| | MAR. . | 14 19 34 | 15 8 40 | | MAR. . | 11 10 43 | 11 5 55 |
| 2 16 36 | APRIL | 13 8 18 | 13 20 35 | 2 10 2 | APRIL | 9 23 27 | 9 20 30 |
| | MAY . | 12 21 2 | 13 5 57 | | MAY . | 9 12 11 | 9 11 45 |
| | JUNE . | 11 9 46 | 11 13 43 | | JUNE . | 8 0 55 | 8 3 7 |
| | JULY . | 10 22 30 | 10 20 57 | | JULY . | 7 13 39 | 7 17 57 |
| | AUG. . | 9 11 14 | 9 4 42 | | AUG. . | 6 2 23 | 6 7 50 |
| | SEPT. . | 7 23 58 | 7 13 50 | | SEPT. . | 4 15 7 | 4 20 42 |
| | OCT. . | 7 12 42 | 7 1 2 | | OCT. . | 4 3 51 | 4 8 44 |
| | NOV. . | 6 1 26 | 5 14 35 | | NOV. . | 2 16 35 | 2 20 11 |
| | DEC. . | 5 14 10 | 5 6 23 | | DEC. . | 2 5 19 | 2 7 12 |
| | | | | | | 31 13 3 | 31 17 43 |
| 1326. A. | JAN. . | 4 2 54 | 3 23 51 | 1323. D. | JAN. . | 30 6 47 | 30 4 9 |
| | FEB. . | 2 15 38 | 2 17 55 | | FEB. . | 23 19 32 | 23 14 34 |
| | MAR. . | 4 4 22 | 4 11 23 | | MAR. . | 30 8 16 | 30 1 39 |
| 2 22 25 | APRIL | 2 17 6 | 3 3 8 | | APRIL | 23 21 0 | 23 13 53 |
| | MAY . | 2 5 50 | 2 16 32 | 2 15 51 | MAY . | 23 9 44 | 23 3 49 |
| | | 31 13 34 | 1 3 35 | | JUNE . | 26 22 28 | 26 19 3 |
| | JUNE . | 30 7 18 | 30 12 54 | | JULY . | 26 11 12 | 26 11 6 |
| | JULY . | 29 20 2 | 29 21 24 | | AUG. . | 24 23 56 | 25 3 13 |
| | AUG. . | 28 8 46 | 28 6 0 | | SEPT. . | 23 12 40 | 23 18 41 |
| | SEPT. . | 26 21 30 | 26 15 26 | | OCT. . | 23 1 24 | 23 9 2 |
| | OCT. . | 26 10 14 | 26 2 11 | | NOV. . | 21 14 8 | 21 22 4 |
| | NOV. . | 24 22 58 | 24 14 27 | | DEC. . | 21 2 52 | 21 9 42 |
| | DEC. . | 24 11 42 | 24 4 14 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|-----------------------|----------------------|
| B.C. 1322. c. April. d. h. m. 2 21 40 | | d. h. m. | d. h. m. | B.C. 1319. F. April. d. h. m. 2 15 6 | | d. h. m. | d. h. m. |
| | JAN. . | 19 15 36 | 19 20 1 | | JAN. . | 16 6 46 | 16 18 18 |
| | FEB. . | 18 4 21 | 18 5 16 | | FEB. . | 14 19 30 | 15 9 25 |
| | MAR. . | 19 17 5 | 19 13 56 | | MAR. . | 16 8 15 | 16 21 27 |
| | APRIL | 18 5 49 | 17 22 52 | | APRIL | 14 20 59 | 15 6 45 |
| | MAY . | 17 18 33 | 17 9 0 | | MAY . | 14 9 43 | 14 14 13 |
| | JUNE . | 16 7 17 | 15 21 4 | | JUNE . | 12 22 27 | 12 20 56 |
| | JULY . | 15 20 1 | 15 11 26 | | JULY . | 12 11 11 | 12 4 1 |
| | AUG. . | 14 8 45 | 14 3 52 | | AUG. . | 10 23 55 | 10 12 30 |
| | SEPT. . | 12 21 29 | 12 21 31 | | SEPT. . | 9 12 39 | 8 23 16 |
| | OCT. . | 12 10 13 | 12 15 14 | | OCT. . | 9 1 23 | 8 12 50 |
| | NOV. . | 10 22 57 | 11 7 55 | | NOV. . | 7 14 7 | 7 5 11 |
| | DEC. . | 10 11 41 | 10 22 44 | | DEC. . | 7 2 51 | 6 23 36 |
| 1321. B.A. | JAN. . | 9 0 25 | 9 11 18 | 1318. E. | JAN. . | 5 15 35 | 5 13 44 |
| | FEB. . | 7 13 9 | 7 21 43 | | FEB. . | 4 4 19 | 4 13 2 |
| | MAR. . | 8 1 53 | 8 6 21 | | MAR. . | 5 17 3 | 6 5 13 |
| 2 3 29 | APRIL | 6 14 37 | 6 13 56 | 2 20 55 | APRIL | 4 5 47 | 4 13 32 |
| | MAY . | 6 3 21 | 5 21 24 | | MAY . | 3 18 31 | 4 5 7 |
| | JUNE . | 4 16 5 | 4 5 43 | | JUNE . | 2 7 15 | 2 13 37 |
| | JULY . | 4 4 49 | 3 16 10 | | JULY . | 1 19 59 | 1 21 7 |
| | AUG. . | 2 17 33 | { 2 5 15 31 21 11 | | AUG. . | { 31 8 43 29 21 27 | 31 4 33 |
| | SEPT. . | { 1 6 17 30 19 1 | 30 15 21 | | SEPT. . | 28 10 11 | 27 23 23 |
| | OCT. . | 30 7 45 | 30 10 29 | | OCT. . | 27 22 55 | 27 11 47 |
| | NOV. . | 28 20 29 | 29 5 0 | | NOV. . | 26 11 39 | 26 2 25 |
| | DEC. . | 28 9 13 | 28 21 33 | | DEC. . | 26 0 23 | 25 18 59 |
| 1320. G. | JAN. . | 26 21 57 | 27 11 22 | 1317. D.C. | JAN. . | 24 13 7 | 24 12 40 |
| | FEB. . | 25 10 41 | 25 22 20 | | FEB. . | 23 1 51 | 23 6 23 |
| | MAR. . | 26 23 26 | 27 7 0 | | MAR. . | 23 14 36 | 23 22 58 |
| 2 9 18 | APRIL | 25 12 10 | 25 14 11 | 2 2 44 | APRIL | 22 3 20 | 22 13 32 |
| | MAY . | 25 0 54 | 24 20 54 | | MAY . | 21 16 4 | 22 1 47 |
| | JUNE . | 23 13 33 | 23 4 15 | | JUNE . | 20 4 48 | 20 12 1 |
| | JULY . | 23 2 22 | 22 13 22 | | JULY . | 19 17 32 | 19 21 1 |
| | AUG. . | 21 15 6 | 21 1 8 | | AUG. . | 18 6 16 | 18 5 39 |
| | SEPT. . | 20 3 50 | 19 15 59 | | SEPT. . | 16 19 0 | 16 14 49 |
| | OCT. . | 19 16 34 | 19 9 39 | | OCT. . | 16 7 44 | 16 1 1 |
| | NOV. . | 18 5 18 | 18 5 1 | | NOV. . | 14 20 28 | 14 12 32 |
| | DEC. . | 17 18 2 | 18 0 27 | | DEC. . | 14 9 12 | 14 1 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|-----------------------------|-----------------------------|---|---------|----------------------------|-----------------------------|
| B.C. 1316. B. April. <i>d. h. m.</i> 2 8 33 | JAN. . | <i>d. h. m.</i> 12 21 56 | <i>d. h. m.</i> 12 15 43 | B.C. 1313. F.E. April. <i>d. h. m.</i> 2 1 59 | JAN. . | <i>d. h. m.</i> 10 13 6 | <i>d. h. m.</i> 10 19 22 |
| | FEB. . | 11 10 41 | 11 7 9 | | FEB. . | 9 1 50 | 9 4 54 |
| | MAR. . | 12 23 25 | 12 23 15 | | MAR. . | 9 14 34 | 9 13 33 |
| | APRIL | 11 12 9 | 11 15 21 | | APRIL | 8 3 18 | 7 22 2 |
| | MAY . | 11 0 53 | 11 6 41 | | MAY . | 7 16 2 | 7 7 15 |
| | JUNE . | 9 13 37 | 9 20 40 | | JUNE . | 6 4 46 | 5 18 9 |
| | JULY . | 9 2 21 | 9 9 5 | | JULY . | 5 17 30 | 5 7 21 |
| | AUG. . | 7 15 5 | 7 20 12 | | AUG. . | 4 6 14 | 3 22 55 |
| | SEPT. . | 6 3 49 | 6 6 38 | | SEPT. . | 2 18 58 | 2 16 16 |
| | OCT. . | 5 16 33 | 5 16 57 | | OCT. . | 2 7 42 | 2 10 18 |
| | NOV. . | 4 5 17 | 4 3 31 | | NOV. . | 31 20 26 | 1 3 51 |
| | DEC. . | 3 18 1 | 3 14 30 | | DEC. . | 30 9 10 | 30 19 49 |
| | | | | | DEC. . | 29 21 54 | 30 9 34 |
| 1315. A. 2 14 22 | JAN. . | { 2 6 45 31 19 29 | 2 1 56 31 13 54 | 1312. D. 2 7 48 | JAN. . | 28 10 38 | 28 20 56 |
| | FEB. . | | | | FEB. . | 26 23 22 | 27 6 14 |
| | MAR. . | { 2 8 13 31 20 57 | 2 2 44 31 16 33 | | MAR. . | 28 12 7 | 28 14 7 |
| | APRIL | 30 9 41 | 30 7 21 | | APRIL | 27 0 51 | 26 21 21 |
| | MAY . | 29 22 25 | 29 22 41 | | MAY . | 26 13 35 | 26 5 2 |
| | JUNE . | 28 11 9 | 28 13 57 | | JUNE . | 25 2 19 | 24 14 15 |
| | JULY . | 27 23 53 | 28 4 36 | | JULY . | 24 15 3 | 24 1 57 |
| | AUG. . | 26 12 37 | 26 18 16 | | AUG. . | 23 3 47 | 22 16 38 |
| | SEPT. . | 25 1 21 | 25 6 59 | | SEPT. . | 21 16 31 | 21 9 51 |
| | OCT. . | 24 14 5 | 24 18 54 | | OCT. . | 21 5 15 | 21 4 49 |
| | NOV. . | 23 2 49 | 23 6 13 | | NOV. . | 19 17 59 | 19 23 57 |
| | DEC. . | 22 15 33 | 22 16 59 | | DEC. . | 19 6 43 | 19 17 42 |
| 1314. G. 2 20 11 | JAN. . | 21 4 17 | 21 3 16 | 1311. C. 2 13 37 | JAN. . | 17 19 27 | 18 8 55 |
| | FEB. . | 19 17 1 | 19 13 20 | | FEB. . | 16 8 11 | 16 21 12 |
| | MAR. . | 21 5 46 | 20 23 43 | | MAR. . | 17 20 56 | 18 6 49 |
| | APRIL | 19 18 30 | 19 11 6 | | APRIL | 16 9 40 | 16 14 31 |
| | MAY . | 19 7 14 | 19 0 1 | | MAY . | 15 22 24 | 15 21 15 |
| | JUNE . | 17 19 58 | 17 14 33 | | JUNE . | 14 11 8 | 14 4 9 |
| | JULY . | 17 8 42 | 17 6 23 | | JULY . | 13 23 52 | 13 12 16 |
| | AUG. . | 15 21 26 | 15 22 49 | | AUG. . | 12 12 36 | 11 22 41 |
| | SEPT. . | 14 10 10 | 14 14 57 | | SEPT. . | 11 1 20 | 10 12 4 |
| | OCT. . | 13 22 54 | 14 6 10 | | OCT. . | 10 14 4 | 10 4 29 |
| | NOV. . | 12 11 38 | 12 20 5 | | NOV. . | 9 2 48 | 8 23 12 |
| | DEC. . | 12 0 22 | 12 8 28 | | DEC. . | 8 15 32 | 8 18 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|--|---|---|---|--|
| B.C. 1310. B. April. <i>d. h. m.</i> 2 19 26 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 7 4 16 5 17 0 7 5 44 5 18 28 5 7 12 3 19 56 3 8 40 { 1 21 24 31 10 8 29 22 52 29 11 36 28 0 20 27 13 4 | <i>d. h. m.</i> 7 13 35 6 6 6 7 19 35 6 6 5 5 14 20 3 21 18 3 4 9 1 11 55 30 21 34 29 9 47 29 0 48 27 18 15 27 13 5 | B.C. 1307. E. April. <i>d. h. m.</i> 2 12 52 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 3 19 26 2 8 10 3 20 54 2 9 38 { 1 22 22 31 11 6 29 23 50 29 12 34 28 1 18 26 14 2 26 2 46 24 15 30 24 4 14 | <i>d. h. m.</i> 3 12 36 2 3 11 3 18 43 2 10 41 2 2 24 31 17 8 30 6 30 29 18 29 28 5 28 26 16 2 26 2 37 24 13 26 24 0 32 |
| 1309. A.G. 2 1 15 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 26 1 48 21 14 32 25 3 17 23 16 1 23 4 45 21 17 29 21 6 13 19 18 57 18 7 41 17 20 25 16 9 9 15 21 53 | 26 7 51 25 1 5 25 15 43 24 3 42 23 13 11 21 21 9 21 4 40 19 12 46 17 22 14 17 9 36 15 23 6 15 14 38 | 1306. D. 2 18 41 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 22 16 58 21 5 42 22 13 27 21 7 11 20 19 55 19 8 39 18 21 23 17 10 7 15 22 51 15 11 35 14 0 19 13 13 3 | 22 11 59 21 0 3 22 13 4 21 3 10 20 18 11 19 9 38 19 0 51 17 15 18 16 4 46 15 17 20 14 5 6 13 16 9 |
| 1308. F. 2 7 4 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 10 37 12 23 21 14 12 6 13 0 50 12 13 34 11 2 18 10 15 2 9 3 46 7 16 30 7 5 14 5 17 58 5 6 42 | 14 7 40 13 1 15 14 18 21 13 9 54 12 23 21 11 10 39 10 20 21 9 5 17 7 14 20 7 0 7 5 11 2 4 23 11 | 1305. C.B. 2 0 30 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 12 1 47 10 14 31 11 3 16 9 16 0 9 4 44 7 17 28 7 6 12 5 18 56 4 7 40 3 20 24 2 9 8 { 1 21 52 31 10 36 | 12 2 31 10 12 25 10 22 18 9 8 50 8 20 43 7 10 22 7 1 41 5 18 4 4 10 43 4 2 46 2 17 36 2 6 53 31 18 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---|--|---|---|---|---|--|
| B.C. 1304. A. April. <i>d. h. m.</i> 2 6 19 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 29 23 20 28 12 4 30 0 48 28 13 32 28 2 16 26 15 0 26 3 44 24 16 28 23 5 12 22 17 56 21 6 40 20 19 24 | <i>d. h. m.</i> 30 4 30 28 13 20 29 21 35 28 6 7 27 15 55 26 3 53 25 18 20 24 11 1 23 5 5 22 23 15 21 16 17 21 7 15 | B.C. 1301. E.D. April. <i>d. h. m.</i> 1 23 45 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 27 14 30 26 3 14 26 15 58 25 4 42 24 17 26 23 6 10 22 18 54 21 7 38 19 20 22 19 9 6 17 21 50 17 10 34 | <i>d. h. m.</i> 28 2 3 26 17 1 27 4 54 25 14 8 24 21 37 23 4 26 22 11 44 20 20 29 19 7 26 18 21 6 17 13 22 17 7 34 |
| 1303. G. 2 12 8 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 19 8 9 17 20 53 19 9 37 17 22 21 17 11 5 15 23 49 15 12 33 14 1 17 12 14 1 12 2 45 10 15 29 10 4 13 | 19 19 46 18 5 55 19 14 15 17 21 32 17 4 45 15 13 0 14 23 21 13 12 32 12 4 41 11 23 6 10 18 28 10 13 9 | 1300. C. 2 5 34 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 15 23 18 14 12 2 16 0 47 14 13 31 14 2 15 12 14 59 12 3 43 10 16 27 9 5 11 8 17 55 7 6 39 6 19 23 | 16 2 28 14 20 24 16 12 22 15 1 37 14 12 15 12 20 58 12 4 44 10 12 37 8 21 29 8 7 58 6 20 24 6 10 51 |
| 1302. F. 2 17 57 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 8 16 57 7 5 41 8 18 26 7 7 10 6 19 54 5 8 38 4 21 22 3 10 6 1 22 50 { 1 11 34 { 31 0 18 29 13 2 29 1 46 | 9 5 44 7 19 26 9 6 14 7 14 40 6 21 40 5 4 19 4 11 43 2 20 57 { 1 8 53 { 30 23 53 30 17 37 29 12 59 29 8 20 | 1299. B. 2 11 23 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 5 8 7 3 20 51 5 9 35 3 22 19 3 11 3 1 23 47 { 1 12 31 { 31 1 15 29 13 59 28 2 43 27 15 27 26 4 11 25 16 55 | 5 3 0 3 20 11 5 13 26 4 5 44 3 20 15 2 8 42 1 19 17 31 4 43 29 13 51 27 23 25 27 9 50 25 21 22 25 9 58 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1298. A. April. <i>d. h. m.</i> 2 17 12 | JAN. . | 24 5 39 | 23 23 44 | B.C. 1295. D. April. <i>d. h. m.</i> 2 10 38 | JAN. . | 20 20 49 | 21 3 56 |
| | FEB. . | 22 18 23 | 22 14 32 | | FEB. . | 19 9 33 | 19 13 8 |
| | MAR. . | 24 7 8 | 24 6 7 | | MAR. . | 20 22 18 | 20 21 23 |
| | APRIL | 22 19 52 | 22 21 53 | | APRIL | 19 11 2 | 19 5 28 |
| | MAY . | 22 8 36 | 22 13 10 | | MAY . | 18 23 46 | 18 14 22 |
| | JUNE . | 20 21 20 | 21 3 25 | | JUNE . | 17 12 30 | 17 1 4 |
| | JULY . | 20 10 4 | 20 16 16 | | JULY . | 17 1 14 | 16 14 15 |
| | AUG. . | 18 22 48 | 19 3 59 | | AUG. . | 15 13 58 | 15 6 0 |
| | SEPT. . | 17 11 32 | 17 14 57 | | SEPT. . | 14 2 42 | 13 23 41 |
| | OCT. . | 17 0 16 | 17 1 43 | | OCT. . | 13 15 26 | 13 18 9 |
| | NOV. . | 15 13 0 | 15 12 23 | | NOV. . | 12 4 10 | 12 12 6 |
| | DEC. . | 15 1 44 | 14 23 22 | | DEC. . | 11 16 54 | 12 4 17 |
| 1297. G.F. | JAN. . | 13 14 23 | 13 10 27 | 1294. C. | JAN. . | 10 5 38 | 10 18 2 |
| | FEB. . | 12 3 12 | 11 21 54 | | FEB. . | 8 18 22 | 9 5 14 |
| | MAR. . | 12 15 57 | 12 10 7 | | MAR. . | 10 7 7 | 10 14 15 |
| 1 23 1 | APRIL | 11 4 41 | 10 23 25 | 2 16 27 | APRIL | 8 19 51 | 8 21 43 |
| | MAY . | 10 17 25 | 10 13 51 | | MAY . | 8 8 35 | 8 4 43 |
| | JUNE . | 9 6 9 | 9 5 9 | | JUNE . | 6 21 19 | 6 12 19 |
| | JULY . | 8 18 53 | 8 20 41 | | JULY . | 6 10 3 | 5 21 29 |
| | AUG. . | 7 7 37 | 7 11 48 | | AUG. . | 4 22 47 | 4 9 14 |
| | SEPT. . | 5 20 21 | 6 2 5 | | SEPT. . | 3 11 31 | 3 0 0 |
| | OCT. . | 5 9 5 | 5 15 22 | | OCT. . | 3 0 15 | 2 17 31 |
| | NOV. . | 3 21 49 | 4 3 43 | | NOV. . | 1 12 59 | 1 12 43 |
| | DEC. . | 3 10 33 | 3 15 10 | | DEC. . | { 1 1 43 30 14 27 | { 1 8 2 31 1 52 |
| 1296. E. | JAN. . | { 1 23 17 31 12 1 | { 2 1 47 31 11 42 | 1293. B.A. | JAN. . | 29 3 11 | 29 16 58 |
| | FEB. . | ... | ... | | FEB. . | 27 15 55 | 28 5 6 |
| | MAR. . | { 2 0 45 31 13 29 | { 1 21 16 31 7 7 | 1 22 16 | MAR. . | 28 4 39 | 28 14 31 |
| 2 4 50 | APRIL | 30 2 13 | 29 18 2 | | APRIL | 26 17 23 | 26 22 1 |
| | MAY . | 29 14 57 | 29 6 39 | | MAY . | 26 6 7 | 26 4 41 |
| | JUNE . | 28 3 41 | 27 21 8 | | JUNE . | 24 18 51 | 24 11 36 |
| | JULY . | 27 16 25 | 27 13 11 | | JULY . | 24 7 35 | 23 19 51 |
| | AUG. . | 26 5 9 | 26 6 3 | | AUG. . | 22 20 19 | 22 6 26 |
| | SEPT. . | 24 17 53 | 24 22 46 | | SEPT. . | 21 9 3 | 20 19 57 |
| | OCT. . | 24 6 37 | 24 14 32 | | OCT. . | 20 21 47 | 20 12 27 |
| | NOV. . | 22 19 21 | 23 4 46 | | NOV. . | 19 10 31 | 19 7 11 |
| | DEC. . | 22 8 5 | 22 17 14 | | DEC. . | 18 23 15 | 19 2 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1292. G. April. <i>d. h. m.</i> 2 4 5 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1289. D.C. April. <i>d. h. m.</i> 1 21 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 11 59 | 17 21 20 | | JAN. . | 15 3 9 | 14 20 50 |
| | FEB. . | 16 0 43 | 16 13 41 | | FEB. . | 13 15 53 | 13 10 50 |
| | MAR. . | 17 13 28 | 18 3 3 | | MAR. . | 14 4 38 | 14 1 48 |
| | APRIL | 16 2 12 | 16 13 29 | | APRIL | 12 17 22 | 12 17 20 |
| | MAY . | 15 14 56 | 15 21 42 | | MAY . | 12 6 6 | 12 8 53 |
| | JUNE . | 14 3 40 | 14 4 47 | | JUNE . | 10 18 50 | 10 23 46 |
| | JULY . | 13 16 24 | 13 11 50 | | JULY . | 10 7 34 | 10 13 30 |
| | AUG. . | 12 5 8 | 11 19 52 | | AUG. . | 8 20 18 | 9 2 2 |
| | SEPT. . | 10 17 52 | 10 5 46 | | SEPT. . | 7 9 2 | 7 13 36 |
| | OCT. . | 10 6 36 | 9 18 7 | | OCT. . | 6 21 46 | 7 0 40 |
| | NOV. . | 8 19 20 | 8 9 7 | | NOV. . | 5 10 30 | 5 11 32 |
| | DEC. . | 8 8 4 | 8 2 22 | | DEC. . | 4 23 14 | 4 22 23 |
| 1291. F. 2 9 53 | JAN. . | 6 20 43 | 6 20 52 | 1288. B. 2 3 20 | JAN. . | 3 11 58 | 3 9 13 |
| | FEB. . | 5 9 32 | 5 15 16 | | FEB. . | 2 0 42 | 1 20 13 |
| | MAR. . | 6 22 17 | 7 8 15 | | MAR. . | 3 13 27 | 3 7 43 |
| | APRIL | 5 11 1 | 5 22 50 | | APRIL | 2 2 11 | 1 20 8 |
| | MAY . | 4 23 45 | 5 10 46 | | MAY . | 1 14 55 | 1 9 48 |
| | JUNE . | 3 12 29 | 3 20 24 | | | 31 3 39 | 31 0 39 |
| | JULY . | 3 1 13 | 3 4 39 | | JUNE . | 29 16 23 | 29 16 13 |
| | AUG. . | 1 13 57 | 1 12 33 | | JULY . | 29 5 7 | 29 7 49 |
| | | 31 2 41 | 30 21 1 | | AUG. . | 27 17 51 | 27 22 51 |
| | SEPT. . | 29 15 25 | 29 6 47 | | SEPT. . | 26 6 35 | 26 12 56 |
| | OCT. . | 29 4 9 | 28 18 17 | | OCT. . | 25 19 19 | 26 2 0 |
| | NOV. . | 27 16 53 | 27 7 40 | | NOV. . | 24 8 3 | 24 14 0 |
| | DEC. . | 27 5 37 | 26 22 51 | | DEC. . | 23 20 47 | 24 1 2 |
| 1290. E. 2 15 42 | JAN. . | 25 18 21 | 25 15 21 | 1287. A. 2 9 9 | JAN. . | 22 9 31 | 22 11 6 |
| | FEB. . | 24 7 5 | 24 8 26 | | FEB. . | 20 22 15 | 20 20 34 |
| | MAR. . | 25 19 49 | 26 1 8 | | MAR. . | 22 10 59 | 22 5 54 |
| | APRIL | 24 8 33 | 24 16 34 | | APRIL | 20 23 43 | 20 15 57 |
| | MAY . | 23 21 17 | 24 6 7 | | MAY . | 20 12 27 | 20 3 29 |
| | JUNE . | 22 10 1 | 22 17 43 | | JUNE . | 19 1 11 | 18 16 58 |
| | JULY . | 21 22 45 | 22 3 52 | | JULY . | 18 13 55 | 18 8 23 |
| | AUG. . | 20 11 29 | 20 13 17 | | AUG. . | 17 2 39 | 17 1 8 |
| | SEPT. . | 19 0 13 | 18 22 48 | | SEPT. . | 15 15 23 | 15 18 17 |
| | OCT. . | 18 12 57 | 18 8 55 | | OCT. . | 15 4 7 | 15 10 53 |
| | NOV. . | 17 1 41 | 16 19 55 | | NOV. . | 13 16 51 | 14 2 9 |
| | DEC. . | 16 14 25 | 16 7 52 | | DEC. . | 13 5 35 | 13 15 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|---|--|---|---|--|
| B.C. 1286. G. April. <i>d. h. m.</i> 2 14 53 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 11 18 19 10 7 3 11 19 48 10 8 32 9 21 16 8 10 0 7 22 44 6 11 28 5 0 12 4 12 56 3 1 40 2 14 24 | <i>d. h. m.</i> 12 3 7 10 12 52 11 21 19 10 5 10 9 13 20 7 22 56 7 10 48 6 1 21 4 18 19 4 12 46 3 7 20 3 0 38 | B.C. 1283. C. April. <i>d. h. m.</i> 2 8 24 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 8 9 29 6 22 13 8 10 58 6 23 42 6 12 26 5 1 10 4 13 54 3 2 38 1 15 22 1 4 6 30 16 50 29 5 34 28 13 18 | <i>d. h. m.</i> 8 16 6 7 9 37 9 0 27 7 12 14 6 21 27 5 5 1 4 12 3 2 19 37 { 1 4 38 30 15 49 30 5 31 28 21 38 28 15 30 |
| 1285. F.E. 1 20 46 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 1 3 8 30 15 52 29 4 36 29 17 20 28 6 4 27 18 48 26 7 32 25 20 16 24 9 0 22 21 44 22 10 28 20 23 12 20 11 56 | 1 15 41 31 4 5 29 13 59 29 22 1 28 5 2 27 12 4 25 20 16 23 19 58 22 12 18 22 6 55 21 2 27 20 21 13 | 1282. B. 2 14 13 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 27 7 2 25 19 46 27 8 30 25 21 14 25 9 58 23 22 42 23 11 26 22 0 10 20 12 54 20 1 38 18 14 22 18 3 6 | 27 9 55 26 3 35 27 19 20 26 8 35 25 19 20 24 4 18 23 12 27 21 20 43 20 5 57 19 16 38 18 5 4 17 19 15 |
| 1284. D. 2 2 35 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 19 0 40 17 13 24 19 2 9 17 14 53 17 3 37 15 16 21 15 5 5 13 17 49 12 6 33 11 19 17 10 8 1 9 20 45 | 19 13 46 18 3 19 19 13 56 17 22 13 17 5 7 15 11 47 14 19 18 13 4 42 11 16 47 11 7 53 10 1 39 9 20 55 | 1281. A.G. 1 20 2 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 16 15 50 15 4 34 15 17 19 14 6 3 13 18 47 12 7 31 11 20 15 10 8 59 8 21 43 8 10 27 6 23 11 6 11 55 | 16 10 54 15 3 32 15 20 21 14 12 24 14 2 56 12 15 36 12 2 36 10 12 33 8 22 11 8 8 7 6 18 45 6 6 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|----------------|----------------------------------|-----------------------------------|--|----------------|-----------------------------------|----------------------------------|
| B.C. 1280. F. April. <i>d. h. m.</i> 2 1 51 | JAN. . | <i>d. h. m.</i> 5 0 39 | <i>d. h. m.</i> 4 18 28 | B.C. 1277. C.B. April. <i>d. h. m.</i> 1 19 17 | JAN. . | <i>d. h. m.</i> 2 15 49 | <i>d. h. m.</i> 3 1 55 |
| | FEB. . | 3 13 23 | 3 7 39 | | FEB. . | 1 4 33 | 1 12 24 |
| | MAR. . | 5 2 8 | 4 21 51 | | MAR. . | { 1 17 18 | 1 21 15 |
| | APRIL | 3 14 52 | 3 12 54 | | | { 31 6 2 | 31 5 6 |
| | MAY . | 3 3 36 | 3 4 23 | | APRIL | 29 18 46 | 29 12 49 |
| | JUNE . | 1 16 20 | 1 19 42 | | MAY . | 29 7 30 | 28 21 28 |
| | JULY . | { 1 5 4 | 1 10 11 | | JUNE . | 27 20 14 | 27 8 8 |
| | | { 30 17 43 | 30 23 34 | | JULY . | 27 8 58 | 26 21 16 |
| | AUG. . | 29 6 32 | 29 11 53 | | AUG. . | 25 21 42 | 25 13 12 |
| | SEPT. . | 27 19 16 | 27 23 25 | | SEPT. . | 24 10 26 | 24 7 14 |
| | OCT. . | 27 8 0 | 27 10 33 | | OCT. . | 23 23 10 | 24 2 6 |
| | NOV. . | 25 20 44 | 25 21 28 | | NOV. . | 22 11 54 | 22 20 20 |
| | DEC. . | 25 9 28 | 25 8 13 | | DEC. . | 22 0 33 | 22 12 40 |
| 1279. E. 2 7 40 | JAN. . | 23 22 12 | 23 18 55 | 1276. A. 2 1 6 | JAN. . | 20 13 22 | 21 2 22 |
| | FEB. . | 22 10 56 | 22 5 48 | | FEB. . | 19 2 6 | 19 13 22 |
| | MAR. . | 23 23 40 | 23 17 25 | | MAR. . | 20 14 50 | 20 22 6 |
| | APRIL | 22 12 24 | 22 6 12 | | APRIL | 19 3 34 | 19 5 21 |
| | MAY . | 22 1 8 | 21 20 21 | | MAY . | 18 16 18 | 18 12 11 |
| | JUNE . | 20 13 52 | 20 11 38 | | JUNE . | 17 5 2 | 16 19 38 |
| | JULY . | 20 2 36 | 20 3 27 | | JULY . | 16 17 46 | 16 4 4 |
| | AUG. . | 18 15 20 | 18 19 5 | | AUG. . | 15 6 30 | 14 16 4 |
| | SEPT. . | 17 4 4 | 17 10 0 | | SEPT. . | 13 19 14 | 13 7 3 |
| | OCT. . | 16 16 48 | 16 23 49 | | OCT. . | 13 7 58 | 13 1 1 |
| | NOV. . | 15 5 32 | 15 12 31 | | NOV. . | 11 20 42 | 11 20 4 |
| | DEC. . | 14 18 16 | 15 0 4 | | DEC. . | 11 9 26 | 11 16 |
| 1278. D. 2 13 29 | JAN. . | 13 7 0 | 13 10 30 | 1275. G. 2 6 55 | JAN. . | 9 22 10 | 10 9 4 |
| | FEB. . | 11 19 44 | 11 20 0 | | FEB. . | 8 10 54 | 9 0 5 |
| | MAR. . | 13 8 29 | 13 5 5 | | MAR. . | 9 23 39 | 10 12 4 |
| | APRIL | 11 21 13 | 11 14 26 | | APRIL | 8 12 23 | 8 22 |
| | MAY . | 11 9 57 | 11 0 57 | | MAY . | 8 1 7 | 8 5 |
| | JUNE . | 9 22 41 | 9 13 19 | | JUNE . | 6 13 51 | 6 12 |
| | JULY . | 9 11 25 | 9 3 49 | | JULY . | 6 2 35 | 5 19 |
| | AUG. . | 8 0 9 | 7 20 7 | | AUG. . | 4 15 19 | 4 3 |
| | SEPT. . | 6 12 53 | 6 13 25 | | SEPT. . | 3 4 3 | 2 14 |
| | OCT. . | 6 1 37 | 6 6 42 | | OCT. . | 2 16 47 | { 2 4 |
| | NOV. . | 4 14 21 | 4 22 56 | | | { 1 5 31 | { 31 20 |
| | DEC. . | 4 3 5 | 4 13 26 | | NOV. . | { 30 18 15 | 30 15 |
| | | | | | DEC. . | 30 6 59 | 30 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1274. F. April. <i>d. h. m.</i> 2 12 44 | JAN. . | 28 19 43 | 29 4 56 | B.C. 1271. B. April. <i>d. h. m.</i> 2 6 10 | JAN. . | 25 10 53 | 25 5 0 |
| | FEB. . | 27 8 27 | 27 21 6 | | FEB. . | 23 23 37 | 23 18 24 |
| | MAR. . | 28 21 12 | 29 10 21 | | MAR. . | 25 12 22 | 25 8 36 |
| | APRIL | 27 9 56 | 27 20 44 | | APRIL | 24 1 6 | 23 23 54 |
| | MAY . | 26 22 40 | 27 5 3 | | MAY . | 23 13 50 | 23 15 19 |
| | JUNE . | 25 11 24 | 25 12 18 | | JUNE . | 22 2 34 | 22 6 23 |
| | JULY . | 25 0 8 | 24 19 37 | | JULY . | 21 15 18 | 21 20 34 |
| | AUG. . | 23 12 52 | 23 3 57 | | AUG. . | 20 4 2 | 20 9 41 |
| | SEPT. . | 22 1 36 | 21 14 6 | | SEPT. . | 18 16 46 | 18 21 50 |
| | OCT. . | 21 14 20 | 21 2 35 | | OCT. . | 18 5 30 | 18 9 23 |
| | NOV. . | 20 3 4 | 19 17 30 | | NOV. . | 16 18 14 | 16 20 31 |
| | DEC. . | 19 15 48 | 19 10 26 | | DEC. . | 16 6 58 | 16 7 19 |
| 1273. E.D. 1 18 33 | JAN. . | 18 4 32 | 18 4 33 | 1270. A. 2 11 59 | JAN. . | 14 19 42 | 14 17 41 |
| | FEB. . | 16 17 16 | 16 22 33 | | FEB. . | 13 8 26 | 13 4 21 |
| | MAR. . | 17 6 0 | 17 15 14 | | MAR. . | 14 21 10 | 14 15 14 |
| | APRIL | 15 18 44 | 16 5 44 | | APRIL | 13 9 54 | 13 3 8 |
| | MAY . | 15 7 28 | 15 17 45 | | MAY . | 12 22 33 | 12 16 25 |
| | JUNE . | 13 20 12 | 14 3 37 | | JUNE . | 11 11 22 | 11 7 7 |
| | JULY . | 13 8 56 | 13 12 13 | | JULY . | 11 0 6 | 10 22 50 |
| | AUG. . | 11 21 40 | 11 20 31 | | AUG. . | 9 12 50 | 9 14 53 |
| | SEPT. . | 10 10 24 | 10 5 24 | | SEPT. . | 8 1 34 | 8 6 31 |
| | OCT. . | 9 23 8 | 9 15 26 | | OCT. . | 7 14 18 | 7 21 11 |
| | NOV. . | 8 11 52 | 8 3 2 | | NOV. . | 6 3 2 | 6 10 41 |
| | DEC. . | 8 0 36 | 7 16 14 | | DEC. . | 5 15 46 | 5 22 53 |
| 1272. C. 2 0 22 | JAN. . | 6 13 20 | 6 6 58 | 1269. G.F. 1 17 48 | JAN. . | 4 4 30 | 4 9 48 |
| | FEB. . | 5 2 4 | 4 22 56 | | FEB. . | 2 17 14 | 2 19 34 |
| | MAR. . | 6 14 49 | 6 15 29 | | MAR. . | 3 5 59 | 3 4 34 |
| | APRIL | 5 3 33 | 5 7 51 | | APRIL | 1 18 43 | 1 13 26 30 23 3 |
| | MAY . | 4 16 17 | 4 23 11 | | MAY . | 1 7 27 | 30 20 11 |
| | JUNE . | 3 5 1 | 3 12 53 | | JUNE . | 29 8 55 | 28 23 40 |
| | JULY . | 2 17 45 | 3 0 52 | | JULY . | 28 21 39 | 28 15 13 |
| | AUG. . | 1 6 29 30 19 13 | 1 11 29 30 21 27 | | AUG. . | 27 10 23 | 27 8 20 |
| | SEPT. . | 29 7 57 | 29 7 24 | | SEPT. . | 25 23 7 | 26 2 1 |
| | OCT. . | 28 20 41 | 28 17 47 | | OCT. . | 25 11 51 | 25 19 6 |
| | NOV. . | 27 9 25 | 27 4 50 | | NOV. . | 24 0 35 | 24 10 43 |
| | DEC. . | 26 22 9 | 26 16 33 | | DEC. . | 23 13 19 | 24 0 16 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--------------------------------------|---------|----------------------|----------------------|-------------------------------------|---------|----------------------|----------------------|
| B.C. 1268. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1265. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| April. <i>d. h. m.</i> 1 23 37 | JAN. . | 22 2 3 | 22 11 38 | April. <i>d. h. m.</i> 1 17 3 | JAN. . | 19 17 13 | 19 23 45 |
| | FEB. . | 20 14 47 | 20 21 6 | | FEB. . | 18 5 57 | 18 17 4 |
| | MAR. . | 22 3 31 | 22 5 9 | | MAR. . | 18 18 41 | 19 7 43 |
| | APRIL | 20 16 15 | 20 12 38 | | APRIL | 17 7 25 | 17 19 27 |
| | MAY . | 20 4 59 | 19 20 34 | | MAY . | 16 20 9 | 17 4 42 |
| | JUNE . | 18 17 43 | 18 5 59 | | JUNE . | 15 8 53 | 15 12 26 |
| | JULY . | 18 6 27 | 17 17 50 | | JULY . | 14 21 37 | 14 19 45 |
| | AUG. . | 16 19 11 | 16 8 30 | | AUG. . | 13 10 21 | 13 3 36 |
| | SEPT. . | 15 7 55 | 15 1 46 | | SEPT. . | 11 23 5 | 11 12 54 |
| | OCT. . | 14 20 39 | 14 20 33 | | OCT. . | 11 11 49 | 11 0 17 |
| | NOV. . | 13 9 23 | 13 15 25 | | NOV. . | 10 0 33 | 9 13 53 |
| | DEC. . | 12 22 7 | 13 8 55 | | DEC. . | 9 13 17 | 9 5 52 |
| 1267. D. | JAN. . | 11 10 51 | 12 0 0 | 1264. G. | JAN. . | 8 2 1 | 7 23 13 |
| | FEB. . | 9 23 35 | 10 12 14 | | FEB. . | 6 14 45 | 6 17 13 |
| | MAR. . | 11 12 20 | 11 21 54 | | MAR. . | 8 3 30 | 8 10 39 |
| 2 5 26 | APRIL | 10 1 4 | 10 5 41 | 1 22 52 | APRIL | 6 16 14 | 7 2 13 |
| | MAY . | 9 13 48 | 9 12 30 | | MAY . | 6 4 58 | 6 15 28 |
| | JUNE . | 8 2 32 | 7 19 27 | | JUNE . | 4 17 42 | 5 2 26 |
| | JULY . | 7 15 16 | 7 3 39 | | JULY . | 4 6 26 | 4 11 44 |
| | AUG. . | 6 4 0 | 5 14 8 | | AUG. . | 2 19 10 | 2 20 17 |
| | SEPT. . | 4 16 44 | 4 3 35 | | SEPT. . | 1 7 54 | 1 4 59 |
| | OCT. . | 4 5 28 | 3 20 5 | | | 30 20 38 | 30 14 34 |
| | NOV. . | 2 18 12 | 2 14 51 | | OCT. . | 30 9 22 | 30 1 26 |
| | DEC. . | 2 6 56 | 2 10 27 | | NOV. . | 23 22 6 | 23 13 47 |
| | | 31 19 40 | ... | | DEC. . | 23 10 50 | 23 3 36 |
| 1266. C. | JAN. . | 30 8 24 | 1 5 21 | 1263. F. | JAN. . | 26 23 34 | 26 18 44 |
| | FEB. . | 23 21 9 | 30 21 38 | | FEB. . | 25 12 18 | 25 10 48 |
| | MAR. . | 30 9 53 | 1 11 4 | | MAR. . | 27 1 3 | 27 3 10 |
| 2 11 15 | APRIL | 23 22 37 | 30 21 30 | 2 4 41 | APRIL | 25 13 47 | 25 18 59 |
| | MAY . | 23 11 21 | 29 5 40 | | MAY . | 25 2 31 | 25 9 34 |
| | JUNE . | 27 0 5 | 28 12 34 | | JUNE . | 23 15 15 | 23 22 32 |
| | JULY . | 26 12 49 | 26 3 0 | | JULY . | 23 3 59 | 23 10 1 |
| | AUG. . | 25 1 33 | 24 12 36 | | AUG. . | 21 16 43 | 21 20 29 |
| | SEPT. . | 23 14 17 | 23 0 52 | | SEPT. . | 20 5 27 | 20 6 37 |
| | OCT. . | 23 3 1 | 22 16 2 | | OCT. . | 19 18 11 | 19 16 57 |
| | NOV. . | 21 15 45 | 21 9 43 | | NOV. . | 18 6 55 | 18 3 43 |
| | DEC. . | 21 4 29 | 21 4 49 | | DEC. . | 17 19 39 | 17 15 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|----------------------|----------------------|---|---------|----------------------|---------------------------------|
| B.C. 1262. E. April. <i>d. h. m.</i> 2 10 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1259. A. April. <i>d. h. m.</i> 2 3 56 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 8 23 | 16 2 52 | | JAN. . | 12 23 33 | 13 10 30 |
| | FEB. . | 14 21 7 | 14 15 28 | | FEB. . | 11 12 17 | 11 20 43 |
| | MAR. . | 16 9 51 | 16 5 2 | | MAR. . | 13 1 1 | 13 5 13 |
| | APRIL | 14 22 36 | 14 19 37 | | APRIL | 11 13 45 | 11 12 42 |
| | MAY . | 14 11 21 | 14 10 52 | | MAY . | 11 2 29 | 10 20 9 |
| | JUNE . | 13 0 5 | 13 2 13 | | JUNE . | 9 15 13 | 9 4 36 |
| | JULY . | 12 12 49 | 12 17 4 | | JULY . | 9 3 57 | 8 15 7 |
| | AUG. . | 11 1 33 | 11 6 59 | | AUG. . | 7 16 41 | 7 4 25 |
| | SEPT. . | 9 14 17 | 9 19 55 | | SEPT. . | 6 5 25 | 5 20 34 |
| | OCT. . | 9 3 1 | 9 7 59 | | OCT. . | 5 18 9 | 5 14 53 |
| | NOV. . | 7 15 45 | 7 19 27 | | NOV. . | 4 6 53 | 4 10 4 |
| | DEC. . | 7 4 29 | 7 6 27 | | DEC. . | 3 19 37 | 4 4 32 |
| 1261. D.C. 1 16 18 | JAN. . | 5 17 13 | 5 17 0 | 1258. G. 2 9 45 | JAN. . | { 2 8 21 31 21 5 | 2 20 56 ... |
| | FEB. . | 4 5 57 | 4 3 15 | | FEB. . | ... | 1 10 32 |
| | MAR. . | 4 18 40 | 4 13 35 | | MAR. . | { 2 9 50 31 22 34 | 2 21 20 { 1 5 48 30 12 54 |
| | APRIL | 3 7 24 | 3 0 37 | | APRIL | 30 11 18 | 29 19 36 |
| | MAY . | 2 20 8 | 2 12 56 | | MAY . | 30 0 2 | 28 12 46 |
| | JUNE . | { 1 8 52 30 21 36 | 1 2 52 30 18 10 | | JUNE . | 28 12 46 | 28 3 3 |
| | JULY . | 30 10 20 | 30 10 19 | | JULY . | 28 1 30 | 27 12 19 |
| | AUG. . | 28 23 4 | 29 2 31 | | AUG. . | 26 14 14 | 26 0 18 |
| | SEPT. . | 27 11 48 | 27 18 1 | | SEPT. . | 25 2 58 | 24 15 24 |
| | OCT. . | 27 0 32 | 27 8 22 | | OCT. . | 24 15 42 | 24 9 13 |
| | NOV. . | 25 13 16 | 25 21 21 | | NOV. . | 23 4 26 | 23 4 38 |
| | DEC. . | 25 2 0 | 25 8 55 | | DEC. . | 22 17 10 | 23 0 0 |
| 1260. B. 1 22 7 | JAN. . | 23 14 44 | 23 19 5 | 1257: F.E. 1 15 34 | JAN. . | 21 5 54 | 21 17 41 |
| | FEB. . | 22 3 28 | 22 4 11 | | FEB. . | 19 18 33 | 20 8 35 |
| | MAR. . | 23 16 13 | 23 12 48 | | MAR. . | 20 7 22 | 20 20 23 |
| | APRIL | 22 4 57 | 21 21 43 | | APRIL | 18 20 6 | 19 5 31 |
| | MAY . | 21 17 41 | 21 7 53 | | MAY . | 18 8 50 | 18 12 54 |
| | JUNE . | 20 6 25 | 19 20 4 | | JUNE . | 16 21 34 | 16 19 38 |
| | JULY . | 19 19 9 | 19 10 37 | | JULY . | 16 10 18 | 16 2 49 |
| | AUG. . | 18 7 53 | 18 3 12 | | AUG. . | 14 23 2 | 14 11 27 |
| | SEPT. . | 16 20 37 | 16 20 57 | | SEPT. . | 13 11 46 | 12 22 25 |
| | OCT. . | 16 9 21 | 16 14 43 | | OCT. . | 13 0 30 | 12 12 12 |
| | NOV. . | 14 22 5 | 15 7 21 | | NOV. . | 11 13 14 | 11 4 42 |
| | DEC. . | 14 10 49 | 14 22 4 | | DEC. . | 11 1 58 | 10 23 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|--|---|---|---|---|--|
| B.C. 1256. D. April. <i>d. h. m.</i> 1 21 22 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 9 14 42 8 3 26 9 16 11 8 4 55 7 17 39 6 6 23 5 19 7 4 7 51 2 20 35 2 9 19 31 22 3 30 10 47 29 23 31 | <i>d. h. m.</i> 9 18 14 8 12 24 10 4 23 8 17 30 8 3 56 6 12 22 5 19 53 4 3 29 2 12 10 1 22 34 31 11 8 30 1 53 29 18 28 | B.C. 1253. A.G. April. <i>d. h. m.</i> 1 14 49 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 7 5 52 5 18 36 6 7 21 4 20 5 4 8 49 2 21 33 2 10 17 31 23 1 30 11 45 29 0 29 28 13 13 27 1 57 26 14 41 | <i>d. h. m.</i> 7 1 7 5 13 4 6 1 50 4 15 38 4 6 25 2 21 45 2 13 3 1 3 43 30 17 26 29 6 11 28 18 10 27 5 28 26 16 10 |
| 1255. C. 2 3 11 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 28 12 15 27 0 59 28 13 44 27 2 28 26 15 12 25 3 56 24 16 40 23 5 24 21 18 8 21 6 52 19 19 36 19 8 20 | 28 12 6 27 5 41 28 22 7 27 12 32 27 0 40 25 10 52 24 19 52 23 4 37 21 13 54 21 0 14 19 11 49 19 0 47 | 1252. F. 1 20 38 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 25 3 25 23 16 9 25 4 54 23 17 38 23 6 22 21 19 6 21 7 50 19 20 34 18 9 18 17 22 2 16 10 46 15 23 30 | 25 2 21 23 12 20 24 22 41 23 10 3 22 23 1 21 13 38 21 5 35 19 22 5 18 14 18 18 5 33 16 19 25 16 7 44 |
| 1254. B. 2 9 0 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 17 21 4 16 9 48 17 22 32 16 11 16 16 0 0 14 12 44 14 1 23 12 14 12 11 2 56 10 15 40 9 4 24 8 17 8 | 17 15 3 16 6 25 17 22 27 16 14 27 16 5 42 14 19 38 14 8 1 12 19 12 11 5 42 10 16 6 9 2 44 8 13 44 | 1251. E. 2 2 27 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 12 14 13 0 58 14 13 42 13 2 26 12 15 10 11 3 54 10 16 38 9 5 22 7 18 6 7 6 50 5 19 34 5 8 18 | 14 18 29 13 3 53 14 12 26 12 20 51 12 6 6 10 17 5 10 6 27 8 22 11 7 15 40 7 9 48 6 3 21 5 19 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|-----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1250. D. April. d. h. m. 2 8 15 | | d. h. m. | d. h. m. | B.C. 1247. G. April. d. h. m. 2 1 42 | | d. h. m. | d. h. m. |
| | JAN. . | 8 21 2 | 4 8 49 | | JAN. . | 30 0 56 | 30 7 17 |
| | FEB. . | 2 9 46 | 2 20 1 | | FEB. . | 28 13 41 | 28 23 55 |
| | MAR. . | 8 22 31 | 4 5 10 | | MAR. . | 30 2 25 | 30 14 51 |
| | APRIL | 2 11 15 | 2 12 53 | | APRIL | 28 15 9 | 29 2 35 |
| | MAY . | { 1 23 59 31 12 43 | 1 20 5 31 8 48 | | MAY . | 28 3 53 | 28 11 57 |
| | JUNE . | 80 1 27 | 29 13 8 | | JUNE . | 26 16 37 | 26 19 54 |
| | JULY . | 29 14 11 | 29 1 1 | | JULY . | 26 5 21 | 26 3 30 |
| | AUG. . | 28 2 55 | 27 15 51 | | AUG. . | 24 18 5 | 24 11 44 |
| | SEPT. . | 26 15 39 | 26 9 20 | | SEPT. . | 23 6 49 | 22 21 22 |
| | OCT. . | 26 4 23 | 26 4 24 | | OCT. . | 22 19 33 | 22 8 53 |
| | NOV. . | 24 17 7 | 24 23 31 | | NOV. . | 21 8 17 | 20 22 30 |
| | DEC. . | 24 5 51 | 24 17 9 | | DEC. . | 20 21 1 | 20 14 6 |
| 1249. C.B. | JAN. . | 22 18 35 | 23 8 10 | 1246. F. | JAN. . | 19 9 45 | 19 7 5 |
| | FEB. . | 21 7 19 | 21 20 15 | | FEB. . | 17 22 29 | 18 0 36 |
| | MAR. . | 21 20 4 | 22 5 41 | 2 7 31 | MAR. . | 19 11 14 | 19 17 34 |
| 1 14 4 | APRIL | 20 8 48 | 20 13 15 | | APRIL | 17 23 58 | 18 8 53 |
| | MAY . | 19 21 32 | 19 19 57 | | MAY . | 17 12 42 | 17 22 17 |
| | JUNE . | 18 10 16 | 18 2 52 | | JUNE . | 16 1 26 | 16 9 31 |
| | JULY . | 17 23 0 | 17 11 9 | | JULY . | 15 14 10 | 15 19 12 |
| | AUG. . | 16 11 44 | 15 21 46 | | AUG. . | 14 2 54 | 14 4 13 |
| | SEPT. . | 15 0 28 | 14 11 22 | | SEPT. . | 12 15 38 | 12 13 23 |
| | OCT. . | 14 13 12 | 14 3 59 | | OCT. . | 12 4 22 | 11 23 18 |
| | NOV. . | 18 1 53 | 12 22 47 | | NOV. . | 10 17 6 | 10 10 18 |
| | DEC. . | 12 14 40 | 12 18 23 | | DEC. . | 10 5 50 | 9 22 29 |
| 1248. A. | JAN. . | 11 8 24 | 11 13 3 | 1245. E.D. | JAN. . | 8 18 34 | 8 11 55 |
| | FEB. . | 9 16 8 | 10 5 21 | | FEB. . | 7 7 13 | 7 2 27 |
| | MAR. . | 11 4 52 | 11 13 38 | 1 13 20 | MAR. . | 7 20 2 | 7 17 56 |
| 1 19 58 | APRIL | 9 17 36 | 10 5 7 | | APRIL | 6 8 46 | 6 9 49 |
| | MAY . | 9 6 20 | 9 13 3 | | MAY . | 5 21 30 | 6 1 27 |
| | JUNE . | 7 19 4 | 7 20 1 | | JUNE . | 4 10 14 | 4 16 10 |
| | JULY . | 7 7 48 | 7 2 54 | | JULY . | 3 22 58 | 4 5 30 |
| | AUG. . | 5 20 32 | 5 10 49 | | AUG. . | 2 11 42 | 2 17 29 |
| | SEPT. . | 4 9 16 | 3 20 39 | | SEPT. . | { 1 0 26 30 13 10 | 1 4 33 30 15 12 |
| | OCT. . | 3 22 0 | 3 9 4 | | OCT. . | 30 1 54 | 30 1 51 |
| | NOV. . | 2 10 44 | 2 0 17 | | NOV. . | 28 14 33 | 28 12 40 |
| | DEC. . | { 1 28 28 31 12 12 | 1 17 48 31 12 34 | | DEC. . | 28 3 22 | 27 23 44 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|--------------------------------|
| B.C. 1244. C. April. <i>d. h. m.</i> 1 19 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1241. G.F. April. <i>d. h. m.</i> 1 12 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26 16 6 | 26 11 8 | | JAN. . | 24 7 16 | 24 18 54 |
| | FEB. . | 25 4 50 | 24 23 9 | | FEB. . | 22 20 0 | 23 4 52 |
| | MAR. . | 26 17 35 | 26 12 8 | | MAR. . | 23 8 45 | 23 13 4 |
| | APRIL | 25 6 19 | 25 2 13 | | APRIL | 21 21 29 | 21 20 15 |
| | MAY . | 24 19 3 | 24 17 15 | | MAY . | 21 10 13 | 21 3 28 |
| | JUNE . | 23 7 47 | 23 8 46 | | JUNE . | 19 22 57 | 19 11 43 |
| | JULY . | 22 20 31 | 22 23 58 | | JULY . | 19 11 41 | 18 22 21 |
| | AUG. . | 21 9 15 | 21 14 28 | | AUG. . | 18 0 25 | 17 11 45 |
| | SEPT. . | 19 21 59 | 20 4 0 | | SEPT. . | 16 13 9 | 16 4 6 |
| | OCT. . | 19 10 43 | 19 14 36 | | OCT. . | 16 1 53 | 15 22 39 |
| | NOV. . | 17 23 27 | 18 4 22 | | NOV. . | 14 14 37 | 14 18 4 |
| | DEC. . | 17 12 11 | 17 15 21 | | DEC. . | 14 3 21 | 14 12 42 |
| 1243. B. 2 0 57 | JAN. . | 16 0 55 | 16 1 33 | 1240. E. 1 18 24 | JAN. . | 12 16 5 | 13 5 6 |
| | FEB. . | 14 13 39 | 14 11 25 | | FEB. . | 11 4 49 | 11 18 34 |
| | MAR. . | 16 2 23 | 15 21 14 | | MAR. . | 12 17 33 | 13 5 8 |
| | APRIL | 14 15 7 | 14 7 44 | | APRIL | 11 6 17 | 11 13 25 |
| | MAY . | 14 3 51 | 13 19 40 | | MAY . | 10 19 1 | 10 20 21 |
| | JUNE . | 12 16 35 | 12 9 24 | | JUNE . | 9 7 45 | 9 3 1 |
| | JULY . | 12 5 19 | 12 0 50 | | JULY . | 8 20 29 | 8 10 32 |
| | AUG. . | 10 18 3 | 10 17 19 | | AUG. . | 7 9 13 | 6 19 55 |
| | SEPT. . | 9 6 47 | 9 10 3 | | SEPT. . | 5 21 57 | 5 8 5 |
| | OCT. . | 8 19 31 | 9 2 8 | | OCT. . | 5 10 41 | 4 23 18 |
| | NOV. . | 7 8 15 | 7 16 53 | | NOV. . | 3 23 25 | 3 17 11 |
| | DEC. . | 6 20 59 | 7 6 10 | | DEC. . | 3 12 9 | 3 12 36 |
| 1242. A. 2 6 46 | JAN. . | 5 9 43 | 5 17 33 | 1239. D. 2 0 13 | JAN. . | { 2 0 53 31 13 37 | 2 7 52 ... |
| | FEB. . | 3 22 27 | 4 3 32 | | FEB. . | ... | 1 1 23 |
| | MAR. . | 5 11 12 | 5 12 15 | | MAR. . | { 2 2 22 31 15 6 | 2 16 9 { 1 3 49 30 12 53 |
| | APRIL | 3 23 56 | 3 20 24 | | APRIL | 30 3 50 | 29 20 17 |
| | MAY . | 3 12 40 | 3 4 55 | | MAY . | 29 16 34 | 28 3 10 |
| | JUNE . | 2 1 24 | 1 14 48 | | JUNE . | 28 5 18 | 27 10 35 |
| | JULY . | { 1 14 8 31 2 52 | 1 2 53 30 17 31 | | JULY . | 27 18 2 | 25 19 30 |
| | AUG. . | 29 15 36 | 29 10 33 | | AUG. . | 26 6 46 | 24 5 40 |
| | SEPT. . | 28 4 20 | 28 4 33 | | SEPT. . | 24 19 30 | 23 20 30 |
| | OCT. . | 27 17 4 | 27 22 46 | | OCT. . | 24 8 14 | 22 12 55 |
| | NOV. . | 26 5 43 | 26 15 45 | | NOV. . | 22 20 53 | 22 7 8 |
| | DEC. . | 25 13 32 | 26 6 35 | | DEC. . | 22 9 42 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|---|---------|----------------------|----------------------|
| B.C. 1238. C. April. <i>d. h. m.</i> 2 6 1 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1235. F. April. <i>d. h. m.</i> 1 23 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 20 22 26 | 21 1 52 | | JAN. . | 17 13 36 | 17 9 38 |
| | FEB. . | 19 11 10 | 19 19 43 | | FEB. . | 16 2 20 | 15 21 1 |
| | MAR. . | 20 23 55 | 21 11 29 | | MAR. . | 17 15 5 | 17 9 10 |
| | APRIL | 19 12 39 | 20 0 33 | | APRIL | 16 3 49 | 15 22 26 |
| | MAY . | 19 1 23 | 19 11 4 | | MAY . | 15 16 33 | 15 12 54 |
| | JUNE . | 17 14 7 | 17 19 43 | | JUNE . | 14 5 17 | 14 4 13 |
| | JULY . | 17 2 51 | 17 3 31 | | JULY . | 13 18 1 | 13 19 47 |
| | AUG. . | 15 15 35 | 15 11 32 | | AUG. . | 12 6 45 | 12 10 58 |
| | SEPT. . | 14 4 19 | 13 20 33 | | SEPT. . | 10 19 29 | 11 1 19 |
| | OCT. . | 13 17 3 | 13 7 11 | | OCT. . | 10 8 13 | 10 14 40 |
| | NOV. . | 12 5 47 | 11 19 46 | | NOV. . | 8 20 57 | 9 3 0 |
| | DEC. . | 11 18 31 | 11 10 17 | | DEC. . | 8 9 41 | 8 14 24 |
| 1237. B. A. | JAN. . | 10 7 15 | 10 2 26 | 1234. E. | JAN. . | 6 22 25 | 7 0 57 |
| | FEB. . | 8 19 59 | 8 19 33 | | FEB. . | 5 11 9 | 5 10 45 |
| | MAR. . | 9 8 43 | 9 12 41 | | MAR. . | 6 23 53 | 6 20 13 |
| 1 11 50 | APRIL | 7 21 27 | 8 4 50 | 2 5 17 | APRIL | 5 12 37 | 5 6 1 |
| | MAY . | 7 10 11 | 7 19 14 | | MAY . | 5 1 21 | 4 16 57 |
| | JUNE . | 5 22 55 | 6 7 36 | | JUNE . | 3 14 5 | 3 5 38 |
| | JULY . | 5 11 39 | 5 18 9 | | JULY . | 3 2 49 | 2 20 15 |
| | AUG. . | 4 0 23 | 4 3 38 | | AUG. . | 1 15 33 | 1 12 26 |
| | SEPT. . | 2 13 7 | 2 12 52 | | AUG. . | 31 4 17 | 31 5 12 |
| | OCT. . | 2 1 51 | 1 22 33 | | SEPT. . | 29 17 1 | 29 22 0 |
| | | 31 14 35 | 31 9 6 | | OCT. . | 29 5 45 | 29 13 55 |
| | NOV. . | 30 3 19 | 29 20 39 | | NOV. . | 27 13 29 | 28 4 7 |
| | DEC. . | 29 16 3 | 29 9 17 | | DEC. . | 27 7 13 | 27 16 28 |
| 1236. G. | JAN. . | 28 4 47 | 27 23 1 | 1233. D.C. | JAN. . | 25 19 57 | 26 3 1 |
| | FEB. . | 26 17 31 | 26 13 45 | | FEB. . | 24 8 41 | 24 12 5 |
| | MAR. . | 28 6 16 | 28 5 15 | | MAR. . | 24 21 26 | 24 20 13 |
| 1 17 39 | APRIL | 26 19 0 | 26 20 59 | 1 11 6 | APRIL | 23 10 10 | 23 4 15 |
| | MAY . | 26 7 44 | 26 12 14 | | MAY . | 22 22 54 | 22 13 10 |
| | JUNE . | 24 20 23 | 25 2 24 | | JUNE . | 21 11 38 | 21 0 0 |
| | JULY . | 24 9 12 | 24 15 18 | | JULY . | 21 0 22 | 20 13 22 |
| | AUG. . | 22 21 56 | 23 3 2 | | AUG. . | 19 13 6 | 19 5 17 |
| | SEPT. . | 21 10 40 | 21 14 6 | | SEPT. . | 18 1 50 | 17 23 7 |
| | OCT. . | 20 23 24 | 21 0 56 | | OCT. . | 17 14 34 | 17 17 41 |
| | NOV. . | 19 12 8 | 19 11 43 | | NOV. . | 16 3 18 | 16 11 37 |
| | DEC. . | 19 0 52 | 18 22 37 | | DEC. . | 15 16 2 | 16 3 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---|---|---|---|---|--|---|
| B.C. 1232. B. April. <i>d. h. m.</i> 1 16 54 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 14 4 46 12 17 30 14 6 15 12 18 59 12 7 43 10 20 27 10 9 11 8 21 55 7 10 39 6 23 23 5 12 7 5 0 51 | <i>d. h. m.</i> 14 17 16 13 4 16 14 13 7 12 20 32 12 3 30 10 11 5 9 20 24 8 8 21 6 23 20 6 17 2 5 12 20 5 7 37 | B.C. 1229. F.E. April. <i>d. h. m.</i> 1 10 21 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 11 19 56 10 8 40 10 21 24 9 10 8 8 22 52 7 11 36 7 0 20 5 13 4 4 1 43 3 14 32 2 3 16 { 1 16 0 31 4 44 | <i>d. h. m.</i> 11 20 23 10 14 39 11 7 26 9 21 51 9 9 36 7 19 10 7 3 26 5 11 25 3 20 1 3 5 57 1 17 34 1 7 3 30 22 15 |
| 1231. A. 1 22 43 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 3 13 35 2 2 19 3 15 3 2 3 47 { 1 16 31 31 5 15 29 17 59 29 6 43 27 19 27 26 8 11 25 20 55 24 9 39 23 22 23 | <i>d. h. m.</i> 4 1 15 2 16 12 4 4 6 2 13 20 1 20 43 31 3 22 29 10 22 28 18 46 27 5 33 25 19 17 25 11 59 24 6 48 24 2 17 | 1228. D. 1 16 10 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 29 17 23 28 6 13 29 13 57 28 7 41 27 20 25 26 9 9 25 21 53 24 10 37 22 23 21 22 12 5 21 0 49 20 13 33 | <i>d. h. m.</i> 29 14 43 28 7 43 30 0 19 28 15 37 28 5 4 26 16 38 26 2 47 24 12 17 22 21 54 22 8 6 20 19 11 20 7 10 |
| 1230. G. 2 4 32 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 22 11 7 20 23 51 22 12 36 21 1 20 20 14 4 19 2 43 18 15 32 17 4 16 15 17 0 15 5 44 13 18 28 13 7 12 | <i>d. h. m.</i> 22 20 45 21 12 54 23 2 3 21 12 17 20 20 25 19 3 30 18 10 37 16 18 48 15 4 54 14 17 26 13 8 36 13 1 54 | 1227. C. 1 21 59 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 19 2 17 17 15 1 19 3 46 17 16 30 17 5 14 15 17 58 15 6 42 13 19 26 12 8 10 11 20 54 10 9 38 9 22 22 | <i>d. h. m.</i> 18 20 6 17 10 3 19 0 56 17 16 26 17 7 57 15 22 48 15 12 32 14 1 6 12 12 45 11 23 51 10 10 47 9 21 38 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---------|---------------------------|---------------------------|---|---------|---------------------------|---------------------------|
| B.C. 1226. B. April. <i>d. h. m.</i> 2 3 47 | JAN. . | <i>d. h. m.</i> 8 11 6 | <i>d. h. m.</i> 8 8 25 | B.C. 1223. E. April. <i>d. h. m.</i> 1 21 14 | JAN. . | <i>d. h. m.</i> 5 2 16 | <i>d. h. m.</i> 5 15 0 |
| | FEB. . | 6 23 50 | 6 19 20 | | FEB. . | 3 15 0 | 4 3 12 |
| | MAR. . | 8 12 34 | 8 6 44 | | MAR. . | 5 3 44 | 5 12 54 |
| | APRIL | 7 1 18 | 6 19 8 | | APRIL | 3 16 28 | 3 20 47 |
| | MAY . | 6 14 2 | 6 8 49 | | MAY . | 3 5 12 | 3 3 44 |
| | JUNE . | 5 2 46 | 4 23 43 | | JUNE . | 1 17 56 | { 1 10 48 30 19 6 |
| | JULY . | 4 15 30 | 4 15 19 | | JULY . | { 1 6 40 30 19 24 | 30 5 41 |
| | AUG. . | 3 4 14 | 3 6 59 | | AUG. . | 29 8 8 | 28 18 13 |
| | SEPT. . | 1 16 58 | 1 22 4 | | SEPT. . | 27 20 52 | 27 11 47 |
| | OCT. . | { 1 5 42 30 18 26 | 1 12 13 31 1 17 | | OCT. . | 27 9 36 | 27 6 32 |
| | NOV. . | 29 7 10 | 29 13 15 | | NOV. . | 25 22 20 | 26 2 5 |
| | DEC. . | 28 19 54 | 29 0 12 | | DEC. . | 25 11 4 | 25 20 43 |
| 1225. A.G. 1 9 36 | JAN. . | 27 8 38 | 27 10 10 | 1222. D. 2 3 3 | JAN. . | 23 23 48 | 24 13 4 |
| | FEB. . | 25 21 22 | 25 19 30 | | FEB. . | 22 12 32 | 23 2 24 |
| | MAR. . | 26 10 7 | 26 4 48 | | MAR. . | 24 1 17 | 24 12 49 |
| | APRIL | 24 22 51 | 24 14 51 | | APRIL | 22 14 1 | 22 20 57 |
| | MAY . | 24 11 35 | 24 2 25 | | MAY . | 22 2 45 | 22 3 49 |
| | JUNE . | 23 0 19 | 22 16 2 | | JUNE . | 20 15 29 | 20 10 31 |
| | JULY . | 22 13 3 | 22 7 35 | | JULY . | 20 4 13 | 19 18 9 |
| | AUG. . | 21 1 47 | 21 0 26 | | AUG. . | 18 16 57 | 18 3 44 |
| | SEPT. . | 19 14 31 | 19 17 41 | | SEPT. . | 17 5 41 | 16 16 2 |
| | OCT. . | 19 3 15 | 19 10 19 | | OCT. . | 16 18 25 | 16 7 21 |
| | NOV. . | 17 15 59 | 18 1 33 | | NOV. . | 15 7 9 | 15 1 14 |
| | DEC. . | 17 4 43 | 17 14 54 | | DEC. . | 14 19 53 | 14 20 31 |
| 1224. F. 1 15 25 | JAN. . | 15 17 27 | 16 2 16 | 1221. C.B. 1 8 52 | JAN. . | 13 8 37 | 13 15 36 |
| | FEB. . | 14 6 11 | 14 11 51 | | FEB. . | 11 21 21 | 12 8 56 |
| | MAR. . | 15 18 56 | 15 20 10 | | MAR. . | 12 10 6 | 12 23 33 |
| | APRIL | 14 7 40 | 14 3 56 | | APRIL | 10 22 50 | 11 11 8 |
| | MAY . | 13 20 24 | 13 12 8 | | MAY . | 10 11 34 | 10 20 12 |
| | JUNE . | 12 9 8 | 11 21 48 | | JUNE . | 9 0 18 | 9 3 44 |
| | JULY . | 11 21 52 | 11 9 49 | | JULY . | 8 13 2 | 8 10 48 |
| | AUG. . | 10 10 36 | 10 0 35 | | AUG. . | 7 1 46 | 6 18 30 |
| | SEPT. . | 8 23 20 | 8 17 43 | | SEPT. . | 5 14 30 | 5 3 42 |
| | OCT. . | 8 12 4 | 8 12 18 | | OCT. . | 5 3 14 | 4 15 3 |
| | NOV. . | 7 0 48 | 7 6 53 | | NOV. . | 3 15 58 | 3 4 56 |
| | DEC. . | 6 13 32 | 7 0 7 | | DEC. . | 3 4 42 | 2 21 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|---|---------|----------------------|----------------------|--|---------|----------------------|----------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1220. A. | JAN. . | { 1 17 26 31 6 10 | 1 15 1 31 9 21 | B.C. 1217. E.D. | JAN. . | 28 21 20 | 28 18 1 |
| | FEB. . | ... | ... | April. <i>d. h. m.</i> 1 8 6 | FEB. . | 27 10 4 | 27 4 50 |
| April. <i>d. h. m.</i> 1 14 40 | MAR. . | { 1 18 54 31 7 38 | 2 2 51 31 18 27 | | MAR. . | 27 22 48 | 27 16 24 |
| | APRIL | 29 20 22 | 30 7 30 | | APRIL | 26 11 32 | 26 5 11 |
| | MAY . | 29 9 6 | 29 18 10 | | MAY . | 26 0 16 | 25 19 28 |
| | JUNE . | 27 21 50 | 28 3 7 | | JUNE . | 24 18 0 | 24 10 48 |
| | JULY . | 27 10 34 | 27 11 17 | | JULY . | 24 1 44 | 24 2 36 |
| | AUG. . | 25 23 18 | 25 19 41 | | AUG. . | 22 14 28 | 22 13 19 |
| | SEPT. . | 24 12 2 | 24 5 4 | | SEPT. . | 21 3 12 | 21 9 17 |
| | OCT. . | 24 0 46 | 23 15 53 | | OCT. . | 20 15 56 | 20 23 9 |
| | NOV. . | 22 13 30 | 22 4 26 | | NOV. . | 19 4 40 | 19 11 50 |
| | DEC. . | 22 2 14 | 21 18 39 | | DEC. . | 18 17 24 | 18 23 18 |
| 1219. G. | JAN. . | 20 14 58 | 20 10 17 | 1216. C. | JAN. . | 17 6 8 | 17 9 36 |
| | FEB. . | 19 3 42 | 19 2 51 | | FEB. . | 15 18 52 | 15 19 1 |
| | MAR. . | 20 16 27 | 20 19 36 | | MAR. . | 17 7 37 | 17 3 58 |
| 1 20 29 | APRIL | 19 5 11 | 19 11 30 | 1 13 55 | APRIL | 15 20 21 | 15 13 18 |
| | MAY . | 18 17 55 | 19 1 55 | | MAY . | 15 9 5 | 14 23 50 |
| | JUNE . | 17 6 39 | 17 14 31 | | JUNE . | 13 21 49 | 13 12 18 |
| | JULY . | 16 19 23 | 17 1 31 | | JULY . | 13 10 33 | 13 2 56 |
| | AUG. . | 15 8 7 | 15 11 31 | | AUG. . | 11 23 17 | 11 19 28 |
| | SEPT. . | 13 20 51 | 13 21 14 | | SEPT. . | 10 12 1 | 10 12 50 |
| | OCT. . | 13 9 35 | 13 7 18 | | OCT. . | 10 0 45 | 10 6 10 |
| | NOV. . | 11 22 19 | 11 18 0 | | NOV. . | 8 13 29 | 8 22 28 |
| | DEC. . | 11 11 3 | 11 5 28 | | DEC. . | 8 2 13 | 8 12 48 |
| 1218. F. | JAN. . | 9 23 47 | 9 17 43 | 1215. B. | JAN. . | 6 14 57 | 7 1 8 |
| | FEB. . | 8 12 31 | 8 6 52 | | FEB. . | 5 3 41 | 5 11 27 |
| | MAR. . | 10 1 16 | 9 21 0 | | MAR. . | 6 16 25 | 6 20 7 |
| 2 2 18 | APRIL | 8 14 0 | 8 12 1 | 1 19 44 | APRIL | 5 5 9 | 5 3 52 |
| | MAY . | 8 2 44 | 8 3 27 | | MAY . | 4 17 53 | 4 11 33 |
| | JUNE . | 6 15 28 | 6 18 45 | | JUNE . | 3 6 37 | 2 20 16 |
| | JULY . | 6 4 12 | 6 9 14 | | JULY . | 2 19 21 | { 2 6 59 31 20 28 |
| | AUG. . | 4 16 56 | 4 22 39 | | AUG. . | { 1 8 5 30 20 49 | 30 12 32 |
| | SEPT. . | 3 5 40 | 3 11 1 | | SEPT. . | 29 9 33 | 29 6 43 |
| | OCT. . | 2 18 24 | 2 22 36 | | OCT. . | 28 22 17 | 29 1 39 |
| | NOV. . | { 1 7 8 30 19 52 | 1 9 47 30 20 43 | | NOV. . | 27 11 1 | 27 19 51 |
| | DEC. . | 30 8 36 | 30 7 26 | | DEC. . | 26 23 45 | 27 12 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. | Mean Vernal Equinox. | Month. | Mean New Moon. | True New Moon. |
|--|---|--|---|---|---|---|---|
| B.C. 1214. A. April. <i>d. h. m.</i> 2 1 33 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 25 12 29 24 1 13 25 13 58 24 2 42 23 15 26 22 4 10 21 16 54 20 5 38 18 18 22 18 7 6 16 19 50 16 8 34 | <i>d. h. m.</i> 26 1 33 24 12 20 25 20 54 24 4 5 23 10 52 21 18 25 21 3 46 19 15 49 18 6 59 18 0 52 16 20 18 16 15 36 | B.C. 1211. D. April. <i>d. h. m.</i> 1 18 59 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 22 3 39 20 16 23 22 5 8 20 17 52 20 6 36 18 19 20 18 8 4 16 20 48 15 9 32 14 22 16 13 11 0 12 23 44 | <i>d. h. m.</i> 22 3 59 20 21 53 22 14 25 21 4 44 20 16 36 19 2 27 18 11 3 16 19 26 15 4 26 14 14 38 13 2 20 12 15 36 |
| 1213. G.F. 1 7 22 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 21 18 13 10 2 13 22 47 12 11 31 12 0 15 10 12 59 10 1 43 8 14 27 7 3 11 6 15 55 5 4 39 4 17 23 | 15 9 13 14 0 2 14 11 47 12 20 52 12 4 11 10 10 51 9 17 57 8 2 32 6 13 30 6 3 24 4 20 5 4 14 48 | 1210. C. 2 0 48 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 11 12 28 10 1 12 11 13 57 10 2 41 9 15 25 8 4 9 7 16 53 6 5 37 4 18 21 4 7 5 2 19 49 { 2 8 33 31 21 17 | 11 6 21 9 22 15 11 14 45 10 7 0 9 22 13 8 11 49 7 23 47 6 10 27 4 20 29 4 6 33 2 17 2 2 4 6 31 15 48 |
| 1212. E. 1 13 11 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 3 6 7 1 18 51 3 7 35 1 20 19 { 1 9 3 30 21 47 29 10 31 28 23 15 27 11 59 26 0 43 25 13 27 24 2 11 23 14 55 | 3 10 5 2 4 20 3 20 18 2 9 18 1 19 32 31 3 45 29 11 1 28 18 26 27 2 55 25 13 15 25 1 54 23 16 57 23 9 56 | 1209. B.A. 1 6 37 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 30 10 1 28 22 45 29 11 29 28 0 13 27 12 57 26 1 41 25 14 25 24 3 9 22 15 53 22 4 37 20 17 21 20 6 5 | 30 4 13 28 17 33 29 7 51 27 22 53 27 14 22 26 5 26 25 19 38 24 8 47 22 21 2 22 8 37 20 19 45 20 6 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1208. G. April. <i>d. h. m.</i> 1 12 26 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1205. D.C. April. <i>d. h. m.</i> 1 5 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 18 18 49 | 18 17 0 | | JAN. . | 16 9 59 | 16 23 16 |
| | FEB. . | 17 7 33 | 17 3 23 | | FEB. . | 14 22 43 | 15 11 18 |
| | MAR. . | 18 20 18 | 18 14 14 | | MAR. . | { 15 11 23 | 15 20 47 |
| | APRIL | 17 9 2 | 17 2 5 | | ○ | { 30 5 50 | 30 4 50 |
| | MAY . | 16 21 46 | 16 15 25 | | APRIL | 14 0 12 | 14 4 25 |
| | JUNE . | 15 10 30 | 15 6 11 | | MAY . | 13 12 56 | 13 11 11 |
| | JULY . | 14 23 14 | 14 21 59 | | JUNE . | 12 1 40 | 11 18 11 |
| | AUG. . | 13 11 58 | 13 14 7 | | JULY . | 11 14 24 | 11 2 31 |
| | SEPT. . | 12 0 42 | 12 5 48 | | AUG. . | 10 3 8 | 9 13 12 |
| | OCT. . | 11 13 26 | 11 20 32 | | SEPT. . | { 8 15 52 | 8 2 53 |
| | NOV. . | 10 2 10 | 10 10 1 | | ○ | { 23 10 14 | 23 13 40 |
| | DEC. . | 9 14 54 | 9 22 9 | | OCT. . | 8 4 36 | 7 19 34 |
| | | | | | NOV. . | 6 17 20 | 6 14 27 |
| | | | | | DEC. . | 6 6 4 | 6 10 3 |
| 1207. F. 1 18 15 | JAN. . | 8 3 38 | 8 8 57 | 1204. 1 11 41 | JAN. . | 4 18 48 | 5 4 40 |
| | FEB. . | 6 16 22 | 6 18 36 | | FEB. . | 3 7 32 | 3 20 55 |
| | MAR. . | 8 5 7 | 8 3 29 | | MAR. . | 4 20 17 | 5 10 7 |
| | APRIL | { 6 17 51 | 6 12 16 | | APRIL | 3 9 1 | 3 20 21 |
| | ○ | { 21 12 13 | 22 0 1 | | MAY . | 2 21 45 | 3 4 24 |
| | MAY . | 6 6 35 | 5 21 54 | | JUNE . | { 1 10 29 | 1 11 15 |
| | JUNE . | 4 19 19 | 4 9 12 | | ○ | { 30 23 13 | 30 18 3 |
| | JULY . | 4 8 3 | 3 22 44 | | JULY . | 30 11 57 | 30 1 52 |
| | AUG. . | 2 20 47 | 2 14 26 | | AUG. . | 29 0 41 | 28 11 41 |
| | SEPT. . | { 1 9 31 | 1 11 19 | | SEPT. . | 27 13 25 | 27 0 9 |
| | ○ | { 30 22 15 | 1 1 28 | | OCT. . | 27 2 9 | 26 15 31 |
| | OCT. . | { 15 16 37 | 15 6 49 | | NOV. . | 25 14 53 | 25 9 19 |
| | NOV. . | { 30 10 59 | 30 18 35 | | DEC. . | 25 3 37 | 25 4 23 |
| | DEC. . | 28 23 43 | 29 10 7 | | | | |
| | | 28 12 27 | 28 23 33 | | | | |
| 1206. E 2 0 4 | JAN. . | 27 1 11 | 27 10 45 | 1203. A. 1 17 30 | JAN. . | 23 16 21 | 23 23 13 |
| | FEB. . | 25 13 55 | 25 20 1 | | ○ | { 7 10 43 | 7 10 16 |
| | MAR. . | 27 2 39 | 27 3 57 | | FEB. . | { 22 5 5 | 22 16 20 |
| | ○ | { 10 21 1 | 11 4 24 | | MAR. . | 23 17 49 | 24 6 46 |
| | APRIL | { 25 15 23 | 25 11 23 | | APRIL | 22 6 33 | 22 13 9 |
| | MAY . | 25 4 7 | 24 19 19 | | MAY . | 21 19 17 | 22 3 23 |
| | JUNE . | 23 16 51 | 23 4 52 | | JUNE . | 20 8 1 | 20 11 10 |
| | JULY . | 23 5 35 | 22 16 54 | | JULY . | 19 20 45 | 19 18 32 |
| | AUG. . | 21 18 19 | 21 5 47 | | ○ | { 3 15 7 | 3 12 3 |
| | SEPT. . | 20 7 3 | 20 1 12 | | AUG. . | { 18 9 29 | 18 2 31 |
| | ○ | { 5 1 25 | 4 22 7 | | SEPT. . | 16 22 13 | 16 12 1 |
| | OCT. . | { 19 19 47 | 19 20 6 | | OCT. . | 16 10 57 | 15 23 34 |
| | NOV. . | 18 8 31 | 18 14 59 | | NOV. . | 14 23 41 | 14 18 23 |
| | DEC. . | 17 21 15 | 18 8 23 | | DEC. . | 14 12 25 | 14 5 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|-------------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| B.C. 1202. g. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1199. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| April. <i>d. h. m.</i> 1 23 19 | JAN. . ○ | { 13 1 9 27 19 31 | 12 22 47 28 2 33 | April. <i>d. h. m.</i> 1 16 46 | JAN. . | 9 16 19 | 9 16 8 |
| | FEB. . | 11 13 53 | 11 16 43 | | FEB. . | 8 5 3 | 8 2 17 |
| | MAR. . | 13 2 38 | 13 9 53 | | MAR. . | 9 17 48 | 9 12 34 |
| | APRIL | 11 15 22 | 12 1 16 | | APRIL | 8 6 32 | 7 23 34 |
| | MAY . | 11 4 6 | 11 14 23 | | MAY . | { 7 19 16 22 13 38 | 7 11 55 22 19 47 |
| | JUNE . | 9 16 50 | 10 1 16 | | JUNE . | 6 8 0 | 6 1 54 |
| | JULY . | { 9 5 34 23 23 56 | 9 10 33 23 12 55 | | JULY . | 5 20 44 | 5 17 19 |
| | ○ | 7 18 18 | 7 19 10 | | AUG. . | 4 9 28 | 4 9 34 |
| | AUG. . | 6 7 2 | 6 3 59 | | SEPT. . | 2 22 12 | 3 1 49 |
| | SEPT. . | 5 19 46 | 5 13 43 | | OCT. . | { 2 10 56 31 23 40 | 2 17 22 1 7 45 |
| | OCT. . | 4 8 30 | 4 0 43 | | ○ | { 15 18 2 30 12 24 | 15 8 21 30 20 41 |
| | NOV. . | 3 21 14 | 3 13 8 | | NOV. . | 30 12 24 | 30 20 41 |
| | DEC. . | | | | DEC. . | 80 1 8 | 30 8 7 |
| 1201. F.E. | JAN. ○ | { 2 9 58 17 4 20 31 22 42 | 2 2 58 17 16 53 31 18 4 | 1198. B. | JAN. . | 28 13 52 | 28 18 9 |
| | FEB. . | ... | ... | | FEB. . | 27 2 36 | 27 3 7 |
| | MAR. . | { 1 11 26 31 0 10 | 1 10 3 31 2 18 | 1 22 35 | MAR. . | 28 15 20 | 28 11 37 |
| 1 5 8 | APRIL | 29 12 54 | 29 18 1 | | APRIL | 27 4 4 | 26 20 31 |
| | MAY . | 29 1 38 | 29 8 33 | | ○ | { 11 22 26 26 16 48 | 12 9 1 26 6 44 |
| | JUNE . | 27 14 22 | 27 21 23 | | MAY . | 25 5 32 | 24 19 3 |
| | ○ | { 12 8 44 27 3 6 | 11 19 50 27 8 57 | | JUNE . | 24 18 16 | 24 9 46 |
| | JULY . | 25 15 50 | 25 19 30 | | JULY . | 23 7 0 | 23 2 30 |
| | AUG. . | 24 4 34 | 24 5 44 | | AUG. . | 21 19 44 | 21 20 23 |
| | SEPT. . | 23 17 18 | 23 16 8 | | SEPT. . | 21 8 28 | 21 14 11 |
| | OCT. . | 22 6 2 | 22 2 58 | | OCT. . | { 5 2 50 19 21 12 | 4 17 13 20 6 48 |
| | NOV. . | 21 18 46 | 21 14 14 | | ○ | 19 21 12 | 20 6 48 |
| | DEC. . | | | | NOV. . | 19 9 56 | 19 21 24 |
| 1200. D. | JAN. . | 20 7 30 | 20 2 3 | 1197. A.G. | JAN. . | 17 22 40 | 18 9 39 |
| | FEB. . | 18 20 14 | 18 14 36 | | FEB. . | 16 11 24 | 16 19 42 |
| | MAR. . | 20 8 59 | 20 4 9 | | MAR. . | 17 0 9 | 17 4 4 |
| 1 10 57 | APRIL | 18 21 43 | 18 18 40 | 1 4 24 | APRIL | 15 12 53 | 15 11 28 |
| | MAY . | 18 10 27 | 18 9 53 | | MAY . | 15 1 37 | 14 18 53 |
| | JUNE . | 16 23 11 | 17 1 15 | | JUNE . | 13 14 21 | 13 3 25 |
| | JULY . | 16 11 55 | 16 16 8 | | JULY . | 13 3 5 | 12 14 6 |
| | AUG. . | 15 0 39 | 15 6 5 | | AUG. . | 11 15 49 | 11 3 37 |
| | SEPT. . | 13 13 23 | 13 19 3 | | SEPT. . | 10 4 33 | 9 19 38 |
| | OCT. . | 13 2 7 | 13 7 12 | | OCT. . | 9 17 17 | 9 14 26 |
| | NOV. . | { 11 14 51 26 9 13 | 11 18 42 26 6 36 | | NOV. . | 8 6 1 | 8 9 39 |
| | ○ | 11 3 35 | 11 5 40 | | DEC. . | 7 18 45 | 8 4 3 |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1196. | JAN. . | 6 7 30 | 6 20 21 | 1193. | JAN. . | 3 22 39 | 3 17 57 |
| F. | FEB. . | 4 20 14 | 5 9 42 | c.B. | FEB. . | 2 11 23 | 2 11 31 |
| April. | MAR. . | 6 8 58 | 6 20 17 | April. | MAR. . | 3 0 8 | 3 4 59 |
| <i>d. h. m.</i> | ○ | 21 3 20 | 21 0 31 | <i>d. h. m.</i> | APRIL | 1 12 52 | 1 21 15 |
| 1 10 13 | APRIL | 4 21 42 | 5 4 36 | 1 3 39 | MAY . | 1 1 36 | 1 11 31 |
| | MAY . | 4 10 26 | 4 11 35 | | { 30 14 20 | 30 23 33 | |
| | JUNE . | 2 23 10 | 2 18 17 | | JUNE . | 29 3 4 | 29 9 42 |
| | JULY . | 2 11 54 | 2 1 50 | | JULY . | 23 15 48 | 23 18 45 |
| | AUG. . | 1 0 38 | 31 11 16 | | AUG. . | 27 4 32 | 27 3 37 |
| | ○ | 30 13 22 | 29 23 29 | | SEPT. . | 25 17 16 | 25 13 2 |
| | SEPT. . | 14 7 44 | 14 12 18 | | OCT. . | 25 6 0 | 24 23 27 |
| | ○ | 29 2 6 | 28 14 49 | | NOV. . | 23 13 44 | 23 11 9 |
| | OCT. . | 23 14 50 | 23 8 47 | | DEC. . | 23 7 28 | 23 0 7 |
| | NOV. . | 27 3 34 | 27 4 15 | | ○ | 7 1 50 | 7 14 39 |
| | DEC. . | 26 16 18 | 26 23 33 | 1192. | JAN. . | 21 20 12 | 21 14 23 |
| 1195. | JAN. . | 25 5 2 | 25 17 4 | A. | FEB. . | 20 8 56 | 20 5 41 |
| E. | FEB. . | 23 17 46 | 24 7 43 | | MAR. . | 21 21 40 | 21 21 37 |
| | ○ | 10 12 8 | 10 6 16 | 1 9 28 | APRIL | 20 10 24 | 20 13 33 |
| 1 16 2 | MAR. . | 25 6 30 | 25 19 18 | | MAY . | 19 23 8 | 20 4 44 |
| | APRIL | 23 19 14 | 24 4 17 | | JUNE . | 18 11 52 | 18 18 36 |
| | MAY . | 23 7 58 | 23 11 36 | | ○ | 3 6 14 | 2 18 31 |
| | JUNE . | 21 20 42 | 21 18 20 | | JULY . | 18 0 36 | 18 7 0 |
| | JULY . | 21 9 26 | 21 1 37 | | AUG. . | 16 13 20 | 16 18 13 |
| | AUG. . | 19 22 10 | 19 10 26 | | SEPT. . | 15 2 4 | 15 4 48 |
| | ○ | 3 16 32 | 3 21 42 | | OCT. . | 14 14 48 | 14 15 17 |
| | SEPT. . | 18 10 54 | 17 21 37 | | NOV. . | 13 3 32 | 13 1 59 |
| | OCT. . | 17 23 38 | 17 11 36 | | DEC. . | 12 16 16 | 12 12 58 |
| | NOV. . | 16 12 22 | 16 4 15 | | ○ | 27 10 38 | 27 20 29 |
| | DEC. . | 16 1 6 | 15 22 44 | 1191. | JAN. . | 11 5 0 | 11 0 20 |
| 1194. | JAN. . | 14 13 50 | 14 17 46 | G. | FEB. . | 9 17 44 | 9 12 13 |
| D. | FEB. . | 13 2 34 | 13 11 45 | | MAR. . | 11 6 29 | 11 0 55 |
| | ○ | 27 20 56 | 27 18 58 | 1 15 17 | APRIL | 9 19 13 | 9 14 42 |
| 1 21 50 | MAR. . | 14 15 19 | 15 3 30 | | MAY . | 9 7 57 | 9 5 27 |
| | APRIL | 13 4 3 | 13 16 26 | | JUNE . | 7 20 41 | 7 20 48 |
| | MAY . | 12 16 47 | 13 2 43 | | ○ | 22 15 3 | 22 9 52 |
| | JUNE . | 11 5 31 | 11 11 7 | | JULY . | 7 9 25 | 7 12 9 |
| | JULY . | 10 18 15 | 10 18 38 | | AUG. . | 5 22 9 | 6 2 51 |
| | AUG. . | 9 6 59 | 9 2 22 | | SEPT. . | 4 10 53 | 4 16 38 |
| | ○ | 24 1 21 | 24 0 7 | | OCT. . | 3 23 37 | 4 5 26 |
| | SEPT. . | 7 19 43 | 7 11 12 | | NOV. . | 2 12 21 | 2 17 26 |
| | OCT. . | 7 8 27 | 6 21 47 | | DEC. ○ | 2 1 5 | 2 4 43 |
| | NOV. . | 5 21 11 | 5 7 29 | | { 16 19 27 | 16 20 18 | |
| | DEC. . | 5 9 55 | 5 1 20 | | { 31 13 49 | 31 15 21 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 1190. | JAN. . | 30 2 33 | 30 1 26 | 1187. | JAN. . | 26 17 43 | 27 7 25 |
| F. | FEB. . | 28 15 17 | 28 11 19 | B. | FEB. . | 25 6 27 | 25 19 16 |
| April. | MAR. . | 30 4 1 | 29 21 36 | April. | MAR. . | 26 19 11 | 27 4 30 |
| <i>d. h. m.</i> | APRIL | 28 16 45 | 28 8 58 | <i>d. h. m.</i> | ○ | { 10 13 33 | 10 11 33 |
| 1 21 6 | MAY . | 28 5 29 | 27 21 59 | 1 14 32 | APRIL | { 25 7 55 | 25 11 57 |
| | ○ | { 11 23 51 | 12 3 5 | | MAY . | 24 20 39 | 24 18 37 |
| | JUNE . | { 26 18 13 | 26 12 44 | | JUNE . | 23 9 23 | 23 1 35 |
| | JULY . | 26 6 57 | 26 4 47 | | JULY . | 22 22 7 | 22 10 1 |
| | AUG. . | 24 19 41 | 24 21 21 | | AUG. . | 21 10 51 | 20 20 51 |
| | SEPT. . | 23 8 25 | 23 13 38 | | SEPT. . | 19 23 35 | 19 10 40 |
| | OCT. . | 22 21 9 | 23 4 55 | | ○ | { 4 17 57 | 4 22 12 |
| | NOV. . | 21 9 53 | 21 18 45 | | OCT. . | { 19 12 19 | 19 3 29 |
| | DEC. . | 20 22 37 | 21 6 58 | | NOV. . | 18 1 3 | 17 22 24 |
| | | | | | DEC. . | 17 13 47 | 17 17 59 |
| 1189. | JAN. . | 19 11 21 | 19 17 35 | | | | |
| E.D. | FEB. . | 18 0 5 | 18 2 51 | 1186. | JAN. . | 16 2 31 | 16 12 30 |
| | MAR. . | 18 12 50 | 18 11 18 | A. | FEB. . | 14 15 15 | 15 4 35 |
| 1 2 55 | APRIL | 17 1 34 | 16 19 40 | | MAR. . | 16 4 0 | 16 17 38 |
| | ○ | { 1 19 56 | 2 6 58 | 1 20 21 | APRIL | 14 16 44 | 15 3 46 |
| | MAY . | { 16 14 18 | 16 4 56 | | MAY . | 14 5 28 | 14 11 47 |
| | JUNE . | 15 3 2 | 14 16 2 | | JUNE . | 12 18 12 | 12 18 42 |
| | JULY . | 14 15 46 | 14 5 33 | | JULY . | 12 6 56 | 12 1 41 |
| | AUG. . | 13 4 30 | 12 21 26 | | AUG. . | 10 19 40 | 10 9 44 |
| | SEPT. . | 11 17 14 | 11 15 5 | | SEPT. . | 9 8 24 | 8 19 47 |
| | OCT. . | { 11 5 58 | 11 9 19 | | OCT. . | 8 21 8 | 8 8 23 |
| | ○ | { 26 0 20 | 25 15 32 | | NOV. . | 7 9 52 | 6 23 45 |
| | NOV. . | 9 18 42 | 10 2 51 | | DEC. . | 6 22 36 | 6 17 23 |
| | DEC. . | 9 7 26 | 9 18 37 | | | | |
| 1188. | JAN. . | 7 20 10 | 8 8 4 | 1185. | JAN. . | 5 11 20 | 5 12 1 |
| | FEB. . | 6 8 54 | 6 19 4 | G.F. | FEB. . | { 4 0 4 | 4 6 41 |
| | MAR. . | 7 21 39 | 8 4 4 | | ○ | { 18 18 26 | 18 18 29 |
| 1 8 43 | APRIL | { 6 10 23 | 6 11 39 | | MAR. . | 4 12 49 | 4 23 34 |
| | ○ | { 21 4 45 | 21 11 2 | 1 2 10 | APRIL | 3 1 33 | 3 13 52 |
| | MAY . | 5 23 7 | 5 18 48 | | MAY . | 2 14 17 | 3 1 26 |
| | JUNE . | 4 11 51 | 4 2 34 | | JUNE . | { 1 3 1 | 1 10 42 |
| | JULY . | 4 0 35 | 3 12 2 | | | { 30 15 45 | 30 18 40 |
| | AUG. . | 2 13 19 | { 2 0 6 | | JULY . | 30 4 29 | 30 2 21 |
| | | | { 31 15 10 | | ○ | { 13 22 51 | 13 18 3 |
| | SEPT. . | { 1 2 3 | 30 8 50 | | AUG. . | { 28 17 13 | 28 10 43 |
| | ○ | { 30 14 47 | 30 6 54 | | SEPT. . | 27 5 57 | 26 20 31 |
| | OCT. . | { 30 3 31 | 30 4 0 | | OCT. . | 26 18 41 | 26 8 11 |
| | NOV. . | 28 16 15 | 28 23 7 | | NOV. . | 25 7 25 | 24 21 56 |
| | DEC. . | 28 4 59 | 28 16 36 | | DEC. . | 24 20 9 | 24 13 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---|--|--|---|---|---|---|
| B.C. 1184. E. April. <i>d. h. m.</i> 1 7 58 | JAN. . ○ FEB. . MAR. . APRIL MAY . JUNE . JULY . ○ AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 23 8 53 { 7 3 15 21 21 37 23 10 21 21 23 5 21 11 49 20 0 33 19 13 17 { 3 7 39 18 2 1 16 14 45 16 3 29 14 16 13 14 4 57 | <i>d. h. m.</i> 23 6 31 7 10 57 21 23 56 23 16 43 22 8 0 21 21 11 20 8 22 19 18 5 2 19 58 18 3 9 16 14 26 15 22 29 14 9 35 13 21 49 | B.C. 1181. B.A. April. <i>d. h. m.</i> 1 1 25 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | <i>d. h. m.</i> 21 0 3 19 12 47 20 1 31 18 14 15 18 2 59 { 1 21 21 16 15 43 16 4 27 14 17 11 13 5 55 12 18 39 { 11 7 23 26 1 45 10 20 7 | <i>d. h. m.</i> 21 0 45 19 10 26 19 20 9 18 6 40 17 18 38 2 3 7 16 8 27 15 23 59 14 16 35 13 9 24 13 1 32 11 16 20 25 16 41 11 5 27 |
| 1183. D. 1 13 47 | JAN. . ○ FEB. . MAR. . APRIL MAY . JUNE . JULY . ○ AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> { 12 17 41 27 12 3 11 6 25 12 19 10 11 7 54 10 20 38 9 9 22 { 8 22 6 23 16 23 7 10 50 5 23 34 5 12 18 4 1 2 3 13 46 | <i>d. h. m.</i> 12 11 12 28 1 8 11 1 43 12 17 7 11 8 57 11 0 21 9 15 11 9 4 29 23 3 14 7 16 31 6 3 38 5 14 21 4 1 4 3 11 55 | 1180. G. 1 7 14 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | <i>d. h. m.</i> 9 8 51 7 21 35 9 10 20 7 23 4 { 7 11 48 22 6 10 6 0 32 5 13 16 4 2 0 2 14 44 { 2 3 28 31 16 12 { 15 10 34 30 4 56 29 17 40 | <i>d. h. m.</i> 9 16 48 8 2 38 9 11 8 7 19 12 7 3 43 22 16 1 5 13 40 5 1 54 3 16 43 2 9 45 2 4 2 31 22 13 15 1 59 30 15 13 30 5 54 |
| 1182. C. 1 19 36 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | <i>d. h. m.</i> { 2 2 30 31 15 14 ... { 2 3 59 31 16 43 30 5 27 29 18 11 28 6 55 27 19 39 26 8 23 24 21 7 24 9 51 22 22 35 { 7 16 57 22 11 19 | <i>d. h. m.</i> 1 22 58 31 10 17 ... 1 22 15 31 11 11 30 1 15 29 16 20 28 7 50 27 23 7 26 13 39 25 3 15 24 15 53 23 3 38 7 14 36 22 14 33 | 1179. F. 1 13 3 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 28 6 24 26 19 3 28 7 53 26 20 37 26 9 21 24 22 5 24 10 49 22 23 33 21 12 17 21 1 1 19 13 45 19 2 29 | <i>d. h. m.</i> 23 18 3 27 3 50 23 11 52 26 18 53 26 2 12 24 10 39 23 21 20 22 10 53 21 3 32 20 22 15 19 17 42 19 12 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. | | | | B.C. | | | |
| 1178. | | | | 1175. | | | |
| E. | | | | A. | | | |
| April. | | | | April. | | | |
| <i>d. h. m.</i> | | | | <i>d. h. m.</i> | | | |
| 1 18 51 | | | | 1 12 18 | | | |
| | JAN. . | 17 15 13 | 18 4 25 | | JAN. . | 14 6 23 | 14 1 51 |
| | FEB. . | 16 3 57 | 16 17 41 | | FEB. . | 12 19 7 | 12 18 54 |
| | MAR. . | 17 16 41 | 18 4 2 | | MAR. . | 14 7 51 | 14 11 55 |
| | ○ | { 1 11 3 | 1 7 24 | | APRIL | 12 20 35 | 13 3 56 |
| | APRIL | { 16 5 25 | 16 12 11 | | MAY . | 12 9 19 | 12 18 13 |
| | MAY . | 15 18 9 | 15 19 2 | | JUNE . | 10 22 3 | 11 6 29 |
| | JUNE . | 14 6 53 | 14 1 43 | | JULY . | 10 10 47 | 10 17 2 |
| | JULY . | 13 19 37 | 13 9 21 | | AUG. . | 8 23 31 | 9 2 34 |
| | AUG. . | 12 8 21 | 11 18 57 | | SEPT. . | 7 12 15 | 7 11 54 |
| | SEPT. . | { 10 21 5 | 10 7 19 | | OCT. . | 7 0 59 | 6 21 42 |
| | ○ | { 25 15 27 | 25 20 37 | | NOV. . | 5 13 43 | 5 8 19 |
| | OCT. . | 10 9 49 | 9 22 44 | | DEC. . | 5 2 27 | 4 19 57 |
| | NOV. . | 8 22 33 | 8 16 47 | | | | |
| | DEC. . | 8 11 17 | 8 12 12 | 1174. | JAN. . | { 3 15 11 | 3 8 35 |
| | | | | G. | ○ | { 18 9 33 | 18 22 55 |
| 1177. | JAN. . | 7 0 1 | 7 7 23 | | FEB. . | 2 3 55 | 1 22 16 |
| D.C. | FEB. . | 5 12 45 | 6 0 43 | | MAR. . | 3 16 40 | 3 12 58 |
| | MAR. . | { 6 1 30 | 6 15 15 | 1 18 7 | APRIL | 2 5 24 | 2 4 24 |
| | ○ | { 20 19 52 | 20 13 43 | | MAY . | { 1 18 8 | 1 20 4 |
| 1 0 40 | APRIL | 4 14 14 | 5 2 43 | | ○ | { 31 6 52 | 31 11 16 |
| | MAY . | 4 2 58 | 4 11 39 | | JUNE . | 29 19 36 | 30 1 26 |
| | JUNE . | 2 15 42 | 2 19 0 | | ○ | { 14 13 58 | 14 1 57 |
| | JULY . | { 2 4 26 | 2 1 55 | | JULY . | { 29 8 20 | 29 14 19 |
| | ○ | { 31 17 10 | 31 9 26 | | AUG. . | 27 21 4 | 28 2 8 |
| | AUG. . | 30 5 54 | 29 18 32 | | SEPT. . | 26 9 48 | 26 13 15 |
| | ○ | { 14 0 16 | 14 5 27 | | OCT. . | 25 22 32 | 26 0 7 |
| | SEPT. . | { 28 18 38 | 28 5 54 | | NOV. . | 24 11 16 | 24 10 53 |
| | OCT. . | 23 7 22 | 27 19 56 | | DEC. . | 24 0 0 | 23 21 49 |
| | NOV. . | 26 20 6 | 26 12 27 | | | | |
| | DEC. . | 26 8 50 | 26 6 41 | 1173. | ○ | { 7 18 22 | 8 4 25 |
| 1176. | JAN. . | 24 21 34 | 25 1 20 | F.E. | JAN. . | { 22 12 44 | 22 8 47 |
| B. | FEB. . | 23 10 18 | 23 19 0 | March | FEB. . | 21 1 28 | 20 20 6 |
| | ○ | { 10 4 40 | 10 2 55 | 31 23 56 | MAR. . | 21 14 12 | 21 8 12 |
| | MAR. . | { 24 23 3 | 25 10 35 | | APRIL | 20 2 56 | 19 21 26 |
| 1 6 29 | APRIL | 23 11 47 | 23 23 28 | | MAY . | 19 15 40 | 19 11 56 |
| | MAY . | 23 0 31 | 23 9 52 | | JUNE . | 18 4 24 | 18 3 17 |
| | JUNE . | 21 13 15 | 21 18 28 | | ○ | { 2 22 46 | 2 17 25 |
| | JULY . | 21 1 59 | 21 2 21 | | JULY . | { 17 17 8 | 17 18 55 |
| | AUG. . | 19 14 43 | 19 10 27 | | AUG. . | 16 5 52 | 16 10 9 |
| | ○ | { 3 9 5 | 3 7 24 | | SEPT. . | 14 18 36 | 15 0 33 |
| | SEPT. . | { 18 3 27 | 17 19 38 | | OCT. . | 14 7 20 | 14 13 56 |
| | OCT. . | 17 16 11 | 17 6 26 | | NOV. . | 12 20 4 | 13 2 16 |
| | NOV. . | 16 4 55 | 15 19 8 | | DEC. . | { 12 8 48 | 12 13 39 |
| | DEC. . | 15 17 39 | 15 9 42 | | ○ | { 27 3 10 | 27 4 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1172. d. April. d. h. m. 1 5 44 | | d. h. m. | d. h. m. | B.C. 1169. A.G. March. d. h. m. 31 23 11 | | d. h. m. | d. h. m. |
| | JAN. . | 10 21 32 | 11 0 5 | | JAN. . | 8 12 42 | 9 0 40 |
| | FEB. . | 9 10 16 | 9 9 46 | | FEB. . | 7 1 26 | 7 15 23 |
| | MAR. . | 10 23 1 | 10 19 9 | | MAR. . | 7 14 11 | 8 3 4 |
| | APRIL | 9 11 45 | 9 4 55 | | APRIL | { 6 2 55 | 6 12 7 |
| | MAY . | 9 0 29 | 8 15 51 | | ○ | { 20 21 17 | 20 18 12 |
| | JUNE . | { 7 13 13 | 7 4 38 | | MAY . | 5 15 39 | 5 19 25 |
| | ○ | { 22 7 35 | 22 10 32 | | JUNE . | 4 4 23 | 4 2 3 |
| | JULY . | 7 1 57 | 6 19 22 | | JULY . | 3 17 7 | 3 9 8 |
| | AUG. . | 5 14 41 | 5 11 40 | | AUG. . | { 2 5 51 | 1 17 42 |
| | SEPT. . | 4 3 25 | 4 4 43 | | | { 31 18 35 | 31 4 41 |
| | OCT. . | 3 16 9 | 3 21 35 | | SEPT. . | 30 7 19 | 29 18 39 |
| | NOV. . | 2 4 53 | 2 13 21 | | ○ | { 15 1 41 | 15 6 48 |
| | DEC. . | { 1 17 37 | 2 3 28 | | OCT. . | { 29 20 3 | 29 11 32 |
| | | { 31 6 21 | 31 15 42 | | NOV. . | 28 8 47 | 28 6 25 |
| | | | | | DEC. . | 27 21 31 | 28 1 51 |
| 1171. c. | JAN. . | 29 19 5 | 30 2 6 | 1168. F. | JAN. . | 26 10 15 | 26 20 11 |
| | FEB. . | 28 7 49 | 28 11 0 | | FEB. . | 24 22 59 | 25 12 5 |
| | MAR. . | 29 20 34 | 29 19 2 | | MAR. . | 26 11 44 | 27 1 1 |
| 1 11 33 | APRIL | 28 9 13 | 28 3 0 | April. 1 5 0 | APRIL | 25 0 28 | 25 11 6 |
| | MAY . | 27 22 2 | 27 12 0 | | MAY . | 24 13 12 | 24 19 8 |
| | JUNE . | 26 10 46 | 25 22 57 | | JUNE . | 23 1 56 | 23 2 13 |
| | JULY . | 25 23 30 | 25 12 29 | | JULY . | 22 14 40 | 22 9 27 |
| | AUG. . | 24 12 14 | 24 4 36 | | AUG. . | 21 3 21 | 20 17 43 |
| | SEPT. . | 23 0 58 | 22 22 36 | | SEPT. . | 19 16 8 | 19 4 3 |
| | OCT. . | 22 13 42 | 22 17 15 | | OCT. . | 19 4 52 | 18 16 47 |
| | ○ | { 6 8 4 | 6 0 20 | | NOV. . | 17 17 36 | 17 8 5 |
| | NOV. . | { 21 2 26 | 21 11 8 | | DEC. . | 17 6 20 | 17 1 27 |
| | DEC. . | 20 15 10 | 21 3 5 | | | | |
| 1170. B. | JAN. . | 19 3 54 | 19 16 28 | 1167. E. | JAN. . | 15 19 4 | 15 19 52 |
| | FEB. . | 17 16 38 | 18 3 17 | | FEB. . | 14 7 48 | 14 14 1 |
| | MAR. . | 19 5 22 | 19 11 57 | | ○ | { 1 2 10 | 1 2 36 |
| 1 17 22 | APRIL | 17 18 6 | 17 19 14 | | MAR. . | { 15 20 32 | 16 6 37 |
| | ○ | { 2 12 28 | 2 17 34 | 1 10 49 | APRIL | 14 9 16 | 14 20 50 |
| | MAY . | { 17 6 50 | 17 2 11 | | MAY . | 13 22 0 | 14 8 27 |
| | JUNE . | 15 19 34 | 15 9 49 | | JUNE . | 12 10 44 | 12 17 57 |
| | JULY . | 15 8 18 | 14 19 18 | | JULY . | 11 23 28 | 12 2 13 |
| | AUG. . | 13 21 2 | 13 7 28 | | AUG. . | { 10 12 12 | 10 10 13 |
| | SEPT. . | 12 9 46 | 11 22 41 | | ○ | { 25 6 34 | 25 2 12 |
| | OCT. . | { 11 22 30 | 11 16 35 | | SEPT. . | 9 0 56 | 8 19 3 |
| | ○ | { 26 16 52 | 26 15 44 | | OCT. . | 8 13 40 | 8 5 7 |
| | NOV. . | 10 11 14 | 10 11 57 | | NOV. . | 7 2 24 | 6 16 53 |
| | DEC. . | 9 23 58 | 10 7 11 | | DEC. . | 6 15 8 | 6 6 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1166. D. | JAN. . | 5 3 52 | 4 21 40 | B.C. 1163. G. | JAN. . | { 1 19 2 | 1 23 23 |
| | FEB. . | { 3 16 36 | 3 14 5 | | FEB. . | { 31 7 46 | 31 9 14 |
| | ○ | { 18 10 58 | 18 19 12 | | ... | ... | ... |
| April. <i>d. h. m.</i> 1 16 37 | MAR. . | 5 5 21 | 5 7 0 | April. <i>d. h. m.</i> 1 10 4 | MAR. . | { 1 20 31 | 1 18 29 |
| | APRIL | 3 18 5 | 3 23 29 | | APRIL | { 31 9 15 | 31 3 40 |
| | MAY . | 3 6 49 | 3 14 39 | | MAY . | 29 21 59 | 29 13 42 |
| | JUNE . | 1 19 33 | 2 3 59 | | ○ | 29 10 43 | 29 1 22 |
| | JULY . | { 1 8 17 | 1 15 31 | | JUNE . | { 13 5 5 | 13 10 29 |
| | ○ | { 30 21 1 | 31 1 42 | | JULY . | { 27 23 27 | 27 15 5 |
| | AUG. . | { 14 15 23 | 14 3 17 | | AUG. . | 27 12 11 | 27 6 46 |
| | SEPT. . | { 29 9 45 | 29 11 17 | | SEPT. . | 26 0 55 | 25 23 46 |
| | OCT. . | 27 22 29 | 27 21 1 | | OCT. . | 24 13 39 | 24 17 7 |
| | NOV. . | 27 11 13 | 27 7 20 | | NOV. . | 24 2 23 | 24 9 47 |
| | DEC. . | 25 23 57 | 25 18 27 | | ○ | 22 15 7 | 23 0 56 |
| | | 25 12 41 | 25 6 27 | | DEC. . | { 7 9 29 | 7 1 3 |
| | | | | | | { 22 3 51 | 22 14 11 |
| 1165. C.B. | JAN. . | 24 1 25 | 23 19 21 | 1162. F. | JAN. . | 20 16 35 | 21 1 24 |
| | ○ | { 7 19 47 | 8 9 16 | | FEB. . | 19 5 19 | 19 10 49 |
| March. 31 22 26 | FEB. . | { 22 14 9 | 22 9 16 | | MAR. . | 20 18 4 | 20 19 0 |
| | MAR. . | 23 2 54 | 23 0 5 | 1 15 53 | APRIL | 19 6 48 | 19 2 41 |
| | APRIL | 21 15 33 | 21 15 32 | | MAY . | 18 19 32 | 18 10 55 |
| | MAY . | 21 4 22 | 21 6 59 | | ○ | { 2 13 54 | 2 23 0 |
| | JUNE . | 19 17 6 | 19 21 49 | | JUNE . | { 17 8 16 | 16 20 41 |
| | JULY . | 19 5 50 | 19 11 35 | | JULY . | 16 21 0 | 16 8 53 |
| | ○ | { 3 0 12 | 2 10 47 | | AUG. . | 15 9 44 | 14 23 50 |
| | AUG. . | { 17 18 34 | 18 0 11 | | SEPT. . | 13 22 28 | 13 17 10 |
| | SEPT. . | 16 7 18 | 16 11 53 | | OCT. . | 13 11 12 | 13 11 51 |
| | OCT. . | 15 20 2 | 15 23 4 | | NOV. . | { 11 23 56 | 12 6 26 |
| | NOV. . | 14 8 46 | 14 10 2 | | ○ | { 26 18 18 | 26 10 48 |
| | DEC. . | 13 21 30 | 13 20 51 | | DEC. . | 11 12 40 | 11 23 34 |
| 1164. A. | JAN. . | 12 10 14 | 12 7 35 | 1161. E.D. March. 31 21 42 | JAN. . | 10 1 24 | 10 14 18 |
| | FEB. . | 10 22 58 | 10 18 26 | | FEB. . | 8 14 8 | 9 2 18 |
| April. 1 4 15 | MAR. . | 12 11 42 | 12 5 47 | | MAR. . | 9 2 52 | 9 11 48 |
| | APRIL | 11 0 26 | 10 18 9 | | APRIL | 7 15 36 | 7 19 32 |
| | MAY . | 10 13 10 | 10 7 50 | | MAY . | 7 4 20 | 7 2 25 |
| | JUNE . | 9 1 54 | 8 22 45 | | JUNE . | 5 17 4 | 5 9 31 |
| | JULY . | 8 14 38 | 8 14 26 | | JULY . | 5 5 48 | 4 17 57 |
| | AUG. . | 7 3 22 | 7 6 11 | | AUG. . | 3 18 32 | 3 4 44 |
| | SEPT. . | 5 16 6 | 5 21 20 | | SEPT. . | 2 7 16 | 1 18 29 |
| | OCT. . | 5 4 50 | 5 11 31 | | ○ | { 1 20 0 | 1 11 14 |
| | NOV. . | 3 17 34 | 4 0 35 | | OCT. . | { 31 8 44 | 31 6 8 |
| | DEC. . | { 3 6 18 | 3 12 32 | | NOV. . | 29 21 28 | 30 1 41 |
| | ○ | { 18 0 40 | 17 22 32 | | DEC. . | 29 10 12 | 29 20 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|------------------------------|---------|------------------------------------|------------------------------------|
| B.C. 1160. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1157. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 22 56 | 28 12 22 | | JAN. . | 25 14 6 | 25 9 40 |
| | FEB. . | 26 11 40 | 27 1 29 | | FEB. . | 24 2 50 | 24 2 8 |
| | MAR. . | 28 0 25 | 28 11 41 | | MAR. . | 24 15 35 | 24 18 45 |
| | ○ | { 11 18 47 | 11 14 14 | | APRIL | 23 4 19 | 23 10 34 |
| c. April. | APRIL | { 26 13 9 | 27 0 41 | G.F. March. | MAY . | 22 17 3 | 23 0 54 |
| <i>d. h. m.</i> | MAY . | 26 1 53 | 26 2 29 | <i>d. h. m.</i> | JUNE . | 21 5 47 | 21 13 27 |
| 1 3 30 | JUNE . | 24 14 37 | 24 9 14 | 31 20 56 | JULY . | 20 18 31 | 21 0 27 |
| | JULY . | 24 3 21 | 23 17 0 | | AUG. . | 19 7 15 | 19 10 31 |
| | AUG. . | 22 16 5 | 22 2 46 | | SEPT. . | 17 19 59 | 17 20 20 |
| | SEPT. . | 21 4 49 | 20 15 18 | | OCT. . | 17 8 43 | 17 6 29 |
| | ○ | { 5 23 11 | 6 5 3 | | NOV. . | 15 21 27 | 15 17 16 |
| | OCT. . | { 20 17 33 | 20 6 50 | | DEC. . | 15 10 11 | 15 4 45 |
| | NOV. . | 19 6 17 | 19 0 50 | | | | |
| | DEC. . | 18 19 1 | 18 20 7 | | | | |
| 1159. | JAN. . | 17 7 45 | 17 15 5 | 1156. | JAN. . | { 13 22 55 | 13 16 58 |
| B. | FEB. . | 15 20 29 | 16 8 14 | E. | ○ | { 28 17 17 | 29 7 2 |
| | MAR. . | 17 9 13 | { 17 22 36 | | FEB. . | 12 11 39 | 12 6 4 |
| | ○ | { 1 3 35 | { 31 21 4 | April. | MAR. . | 14 0 23 | 13 20 8 |
| 1 9 19 | APRIL | { 15 21 57 | 16 9 59 | 1 2 45 | APRIL | 12 13 7 | 12 11 6 |
| | MAY . | 15 10 41 | 15 18 56 | | MAY . | 12 1 51 | 12 2 31 |
| | JUNE . | 13 23 25 | 14 2 26 | | JUNE . | 10 14 35 | 10 17 46 |
| | JULY . | 13 12 9 | 13 9 34 | | JULY . | { 10 3 19 | 10 8 17 |
| | AUG. . | 12 0 53 | 11 17 23 | | ○ | { 24 21 41 | 24 9 28 |
| | SEPT. . | { 10 13 37 | 10 2 44 | | AUG. . | 8 16 3 | 8 21 43 |
| | ○ | { 25 7 59 | 25 13 20 | | SEPT. . | 7 4 47 | 7 10 7 |
| | OCT. . | 10 2 21 | 9 14 18 | | OCT. . | 6 17 31 | 6 21 47 |
| | NOV. . | 8 15 5 | 8 4 20 | | NOV. . | 5 6 15 | 5 9 1 |
| | DEC. . | 8 3 49 | 7 20 33 | | DEC. . | 4 18 59 | 4 19 56 |
| 1158. | JAN. . | 6 16 33 | 6 14 30 | 1155. | JAN. . | { 3 7 43 | 3 6 35 |
| A. | FEB. . | 5 5 13 | 5 8 45 | D. | ○ | { 18 2 5 | 18 12 12 |
| | MAR. . | { 6 18 2 | 7 2 8 | | FEB. . | 1 20 27 | 1 17 7 |
| | ○ | { 21 12 24 | 21 10 43 | | MAR. . | 3 9 12 | 3 3 52 |
| 1 15 8 | APRIL | 5 6 46 | 5 17 31 | 1 8 34 | APRIL | 1 21 56 | 1 15 24 |
| | MAY . | 4 19 30 | 5 6 25 | | MAY . | { 1 10 40 | 1 4 10 |
| | JUNE . | 3 8 14 | 3 16 53 | | JUNE . | { 30 23 24 | 30 18 24 |
| | JULY . | 2 20 53 | 3 1 54 | | JUNE . | 29 12 8 | 29 9 50 |
| | AUG. . | { 1 9 42 | 1 10 9 | | ○ | { 14 6 30 | 14 1 4 |
| | ○ | { 30 22 26 | 30 18 40 | | JULY . | { 29 0 52 | 29 1 43 |
| | SEPT. . | { 14 16 48 | 14 14 49 | | AUG. . | 27 13 36 | 27 17 36 |
| | OCT. . | 23 11 10 | 23 4 11 | | SEPT. . | 26 2 20 | 26 8 35 |
| | NOV. . | 23 23 54 | 23 15 10 | | OCT. . | 25 15 4 | 25 22 29 |
| | DEC. . | 27 12 38 | 27 3 47 | | NOV. . | 24 3 48 | 24 11 8 |
| | | 27 1 22 | 26 18 2 | | DEC. . | 23 16 32 | 23 22 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------------|---------|------------------------------------|------------------------------------|-----------------------------------|------------|------------------------------------|------------------------------------|
| | | d. h. m. | d. h. m. | | | d. h. m. | d. h. m. |
| B.C. 1154. C. | ○ | { 7 10 54 | 7 11 56 | B.C. 1151. F. | JAN. . | 18 20 26 | 19 8 36 |
| April. | JAN. . | { 22 5 16 | 22 8 43 | April. | FEB. . | 17 9 10 | 17 23 12 |
| d. h. m. | FEB. . | 20 18 0 | 20 17 59 | d. h. m. | MAR. . | 18 21 55 | 19 10 43 |
| 1 14 28 | MAR. . | 22 6 45 | 22 2 51 | 1 7 49 | APRIL | 17 10 39 | 17 19 38 |
| | APRIL | 20 19 29 | 20 12 9 | ○ | { 2 5 1 | 2 0 48 | |
| | MAY . | 20 8 13 | 19 22 45 | MAY . | { 16 23 23 | 17 2 53 | |
| | JUNE . | 18 20 57 | 18 11 18 | JUNE . | 15 12 7 | 15 9 33 | |
| | ○ | { 8 15 19 | 8 18 4 | JULY . | 15 0 51 | 14 16 44 | |
| | JULY . | { 18 9 41 | 18 2 5 | AUG. . | 13 13 35 | 13 1 31 | |
| | AUG. . | 16 22 25 | 16 18 42 | SEPT. . | 12 2 19 | 11 12 41 | |
| | SEPT. . | 15 11 9 | 15 12 15 | OCT. . | { 11 15 3 | 11 2 47 | |
| | OCT. . | 14 23 53 | 15 5 37 | ○ | { 26 9 25 | 26 15 31 | |
| | NOV. . | 13 12 37 | 13 21 49 | NOV. . | 10 3 47 | 9 19 38 | |
| | DEC. . | 13 1 21 | 13 12 8 | DEC. . | 9 16 31 | 9 14 23 | |
| 1153. B.A. March. | JAN. . | 11 14 5 | 12 0 20 | 1150. E. | JAN. . | 8 5 15 | 8 9 37 |
| 31 29 12 | FEB. . | 10 2 49 | 10 10 29 | 1 13 38 | FEB. . | 6 17 59 | 7 3 42 |
| | MAR. . | 10 15 33 | 10 19 2 | | MAR. . | 8 6 43 | 8 19 26 |
| | APRIL | 9 4 17 | 9 2 38 | | APRIL | 6 19 27 | 7 8 15 |
| | MAY . | 8 17 1 | 8 10 19 | | MAY . | 6 8 11 | 6 18 20 |
| | JUNE . | 7 5 45 | 6 19 4 | | JUNE . | 4 20 55 | 5 2 26 |
| | JULY . | 6 18 29 | 6 5 57 | | JULY . | 4 9 39 | 4 9 46 |
| | AUG. . | 5 7 13 | 4 19 34 | | AUG. . | 2 22 23 | 2 17 17 |
| | SEPT. . | 3 19 57 | 3 11 55 | | SEPT. . | { 1 11 7 | 1 1 56 |
| | OCT. . | 3 8 41 | 3 6 14 | | { 30 23 51 | 30 12 27 | |
| | NOV. . | { 1 21 25 | 2 1 14 | | OCT. . | 30 12 35 | 30 1 16 |
| | ○ | { 16 15 47 | 16 9 12 | | NOV. . | 29 1 19 | 28 16 25 |
| | DEC. . | { 1 10 9 | 1 19 22 | | DEC. . | 28 14 3 | 28 9 27 |
| | | { 80 22 53 | 81 11 25 | | | | |
| 1152. G. | JAN. . | 29 11 37 | 30 0 43 | 1149. D.C. | JAN. . | 27 2 47 | 27 3 26 |
| April. | FEB. . | 23 0 22 | 23 11 19 | March. | FEB. . | 25 15 31 | 25 21 11 |
| 1 2 1 | MAR. . | 29 13 6 | 29 19 42 | 31 19 27 | ○ | { 11 9 53 | 11 10 32 |
| | APRIL | 28 1 50 | 28 2 47 | | MAR. . | { 26 4 16 | 26 13 34 |
| | ○ | { 12 20 12 | 13 0 3 | | APRIL | 24 17 0 | 25 3 42 |
| | MAY . | { 27 14 34 | 27 9 34 | | MAY . | 24 5 44 | 24 15 27 |
| | JUNE . | 26 8 18 | 25 17 12 | | JUNE . | 22 18 28 | 23 1 14 |
| | JULY . | 25 16 2 | 25 2 43 | | JULY . | 22 7 12 | 22 9 53 |
| | AUG. . | 24 4 46 | 23 15 0 | | AUG. . | 20 19 56 | 20 18 22 |
| | SEPT. . | 22 17 30 | 22 6 23 | | ○ | { 4 14 18 | 4 9 28 |
| | OCT. . | 22 6 14 | 22 0 26 | | SEPT. . | { 19 8 40 | 19 3 32 |
| | ○ | { 6 0 36 | 6 0 41 | | OCT. . | 18 21 24 | 18 13 46 |
| | NOV. . | { 20 18 53 | 20 19 55 | | NOV. . | 17 10 8 | 17 1 49 |
| | DEC. . | 20 7 42 | 20 15 11 | | DEC. . | 16 22 52 | 16 14 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1148. B. April. <i>d. h. m.</i> 1 1 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1145. F.E. March. <i>d. h. m.</i> 31 18 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 11 36 | 15 5 43 | | JAN. . | 13 2 46 | 13 8 6 |
| | FEB. . | { 14 0 20 28 18 42 | 13 21 33 { 1 3 17 | | FEB. . | 11 15 30 | 11 17 36 |
| | MAR. . | 15 13 4 | 15 13 57 | | MAR. . | 12 4 14 | 12 2 21 |
| | APRIL | 14 1 48 | 14 6 6 | | APRIL | 10 16 58 | 10 11 6 |
| | MAY . | 13 14 32 | 13 21 13 | | MAY . | 10 5 42 | 9 20 42 |
| | JUNE . | 12 3 16 | 12 10 47 | | JUNE . | { 8 18 26 23 12 48 | 8 8 8 23 17 52 |
| | JULY . | 11 16 0 | 11 22 43 | | JULY . | 8 7 10 | 7 21 48 |
| | AUG. . | { 10 4 44 24 23 6 | 10 9 24 24 10 34 | | AUG. . | 6 19 54 | 6 13 41 |
| | SEPT. . | 8 17 28 | 8 19 32 | | SEPT. . | 5 8 38 | 5 7 5 |
| | OCT. . | 8 6 12 | 8 5 42 | | OCT. . | 4 21 22 | 5 0 56 |
| | NOV. . | 6 18 56 | 6 16 16 | | NOV. . | 3 10 6 | 3 18 2 |
| | DEC. . | 6 7 40 | 6 3 21 | | DEC. . | { 2 22 50 17 17 12 | 3 9 31 17 9 24 |
| 1147. A. 1 7 5 | JAN. . | 4 20 24 | 4 15 2 | 1144. D. April. 1 0 31 | JAN. . | { 1 11 34 31 0 18 | 1 22 43 31 9 50 |
| | FEB. . | { 3 9 8 18 3 30 | 3 3 24 18 17 12 | | FEB. . | ... | ... |
| | MAR. . | 4 21 53 | 4 16 41 | | MAR. . | { 1 13 3 31 1 47 | 1 13 57 31 2 45 |
| | APRIL | 3 10 37 | 3 6 57 | | APRIL | 29 14 31 | 29 10 7 |
| | MAY . | 2 23 21 | 2 22 2 | | MAY . | 29 3 15 | 28 18 6 |
| | JUNE . | 1 12 5 | 1 13 25 | | ○ | { 12 21 37 27 15 59 | 13 5 56 27 3 46 |
| | JULY . | { 1 0 49 30 13 33 | 1 4 30 30 18 44 | | JUNE . | 27 4 43 | 26 15 58 |
| | ○ | { 14 7 55 29 2 17 | 13 18 27 29 7 56 | | JULY . | 25 17 27 | 25 7 4 |
| | AUG. . | 27 15 1 | 27 20 13 | | AUG. . | 24 6 11 | 24 0 40 |
| | SEPT. . | 27 3 45 | 27 7 51 | | SEPT. . | 23 18 55 | 23 19 41 |
| | OCT. . | 25 16 29 | 25 19 0 | | OCT. . | 22 7 39 | 22 14 34 |
| | NOV. . | 25 5 13 | 25 5 44 | | NOV. . | { 7 2 1 21 20 23 | 6 19 35 22 7 50 |
| 1146. G. 1 12 54 | JAN. . | 23 17 57 | 23 16 7 | 1143. C. 1 6 20 | JAN. . | 20 9 7 | 20 22 32 |
| | FEB. . | 22 6 41 | 22 2 25 | | FEB. . | 18 21 51 | 19 10 21 |
| | MAR. . | 23 19 26 | 23 13 12 | | MAR. . | 20 10 36 | 20 19 33 |
| | APRIL | 22 8 10 | 22 1 4 | | APRIL | 18 23 20 | 19 3 8 |
| | MAY . | 21 20 54 | 21 14 25 | | MAY . | 18 12 4 | 18 9 52 |
| | JUNE . | 20 9 38 | 20 5 16 | | ○ | { 2 6 26 17 0 43 | 2 10 46 16 16 55 |
| | JULY . | 19 22 22 | 19 21 9 | | JUNE . | 16 13 32 | 16 1 23 |
| | AUG. . | 18 11 6 | 18 13 22 | | JULY . | 15 2 16 | 14 12 16 |
| | SEPT. . | 16 23 50 | 17 5 8 | | AUG. . | 13 15 0 | 13 2 11 |
| | OCT. . | 16 12 34 | 16 19 53 | | SEPT. . | 13 3 44 | 12 19 4 |
| | NOV. . | 15 1 18 | 15 9 21 | | NOV. . | 11 16 23 | 11 14 4 |
| | DEC. . | { 14 14 2 29 8 24 | 14 21 25 29 6 27 | | DEC. . | 11 5 12 | 11 9 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-----------------------------|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 1142. | JAN. . | 9 17 56 | 10 4 9 | B.O. 1139. | JAN. . | 6 9 6 | 6 2 18 |
| B. | FEB. . | 8 6 40 | 8 20 10 | E. | FEB. . | 4 21 50 | 4 17 22 |
| April. | MAR. . | 9 19 24 | 10 9 8 | April. | MAR. . | 6 10 34 | 6 9 17 |
| <i>d. h. m.</i> | APRIL | 8 8 8 | 8 19 11 | <i>d. h. m.</i> | APRIL | 4 23 18 | 5 1 27 |
| 1 12 8 | MAY . | 7 20 52 | 8 3 7 | 1 5 35 | MAY . | 4 12 2 | 4 17 6 |
| | JUNE . | 6 9 36 | 6 9 55 | | JUNE . | 3 0 46 | 3 7 31 |
| | JULY . | 5 22 20 | 5 16 48 | | JULY . | 2 13 30 | 2 20 26 |
| | AUG. . | 4 11 4 | 4 0 45 | | AUG. . | { 1 2 14 | 1 7 57 |
| | SEPT. . | 2 23 48 | 2 10 45 | | | { 30 14 53 | 30 18 33 |
| | OCT. . | { 2 12 32 | { 1 23 26 | | SEPT. . | 29 3 42 | 29 4 53 |
| | ○ | { 17 6 54 | { 17 13 34 | | OCT. . | 28 16 26 | 28 15 22 |
| | NOV. . | { 1 1 16 | { 31 14 59 | | NOV. . | 27 5 10 | 27 2 13 |
| | DEC. . | { 30 14 0 | { 30 8 53 | | DEC. . | 26 17 54 | 26 13 29 |
| | | 30 2 44 | 30 3 56 | | | | |
| 1141. | JAN. . | 28 15 28 | 28 22 39 | 1138. | JAN. . | 25 6 33 | 25 1 14 |
| A.G. | FEB. . | 27 4 12 | 27 15 34 | D. | ○ | { 9 1 0 | 9 14 59 |
| March. | MAR. . | 27 16 57 | 28 5 48 | | FEB. . | { 23 19 22 | 23 13 44 |
| 31 17 57 | ○ | { 11 11 19 | { 11 4 21 | | MAR. . | 25 8 7 | 25 3 14 |
| | APRIL | { 26 5 41 | { 26 17 10 | 1 11 24 | APRIL | 23 20 51 | 23 17 43 |
| | MAY . | 25 18 25 | 26 2 13 | | MAY . | 23 9 35 | 23 8 56 |
| | JUNE . | 24 7 9 | 24 9 55 | | JUNE . | 21 22 19 | 22 0 18 |
| | JULY . | 23 19 53 | 23 17 20 | | JULY . | 21 11 3 | 21 15 14 |
| | AUG. . | 22 8 37 | 22 1 28 | | ○ | { 5 5 25 | 4 17 9 |
| | SEPT. . | 20 21 21 | 20 11 9 | | AUG. . | { 19 23 47 | 20 5 15 |
| | ○ | { 5 15 43 | { 5 21 17 | | SEPT. . | 18 12 31 | 18 18 15 |
| | OCT. . | { 20 10 5 | { 19 22 51 | | OCT. . | 18 1 15 | 18 6 26 |
| | NOV. . | 18 22 49 | 18 12 50 | | NOV. . | 16 13 59 | 16 17 58 |
| | DEC. . | 18 11 33 | 18 4 50 | | DEC. . | 16 2 43 | 16 4 53 |
| 1140. | JAN. . | 17 0 17 | 16 22 15 | 1137. | JAN. . | { 14 15 27 | 14 15 17 |
| F. | FEB. . | 15 13 1 | 15 16 3 | C.B. | ○ | { 29 9 49 | 29 19 53 |
| 31 23 46 | MAR. . | { 17 1 46 | { 17 9 5 | March. | FEB. . | 13 4 11 | 13 1 19 |
| | ○ | { 31 20 8 | { 31 18 25 | 31 17 13 | MAR. . | 13 16 56 | 13 11 32 |
| | APRIL | 15 14 30 | 16 0 19 | | APRIL | 12 5 40 | 11 22 31 |
| | MAY . | 15 3 14 | 15 13 18 | | MAY . | 11 18 24 | 11 10 53 |
| | JUNE . | 13 15 58 | 14 0 6 | | JUNE . | 10 7 8 | 10 0 56 |
| | JULY . | 13 4 42 | 13 9 24 | | JULY . | { 9 19 52 | 9 16 27 |
| | AUG. . | 11 17 26 | 11 18 4 | | ○ | { 24 14 14 | 24 8 50 |
| | SEPT. . | { 10 6 10 | { 10 3 2 | | AUG. . | 8 8 36 | 8 8 48 |
| | ○ | { 25 0 32 | { 24 22 20 | | SEPT. . | 6 21 20 | 7 1 8 |
| | OCT. . | 9 18 54 | 9 12 54 | | OCT. . | 6 10 4 | 6 16 44 |
| | NOV. . | 8 7 38 | 8 0 0 | | NOV. . | 4 22 48 | 5 7 6 |
| | DEC. . | 7 20 22 | 7 12 28 | | DEC. . | 4 11 32 | 4 19 59 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1136. A. March. d. h. m. 31 23 1 | | d. h. m. | d. h. m. | B.C. 1133. E. D. March. d. h. m. 31 16 28 | | d. h. m. | d. h. m. |
| | JAN. . | { 3 0 16 | 3 7 19 | | JAN. . | 30 4 9 | 30 16 23 |
| | ○ | { 17 18 38 | 17 19 38 | | FEB. . | 28 16 53 | 29 6 50 |
| | FEB. . | 1 13 0 | 1 17 12 | | MAR. . | 29 5 38 | 29 18 13 |
| | MAR. . | 3 1 44 | 3 2 3 | | APRIL | 27 18 22 | 28 3 2 |
| | APRIL | 1 14 23 | { 1 10 28 | | ○ | { 12 12 44 | 12 7 20 |
| | MAY . | { 1 3 12 | { 30 19 21 | | MAY . | { 27 7 6 | 27 10 17 |
| | | { 30 15 56 | 30 5 37 | | JUNE . | 25 19 50 | 25 17 4 |
| | JUNE . | 29 4 40 | 28 18 4 | | JULY . | 25 8 34 | 25 0 27 |
| | ○ | { 13 23 2 | 14 1 38 | | AUG. . | 23 21 18 | 23 9 27 |
| | JULY . | { 28 17 24 | 28 8 57 | | SEPT. . | 22 10 2 | 21 20 51 |
| | AUG. . | 27 6 8 | 27 1 51 | | OCT. . | 21 22 46 | 21 11 0 |
| | SEPT. . | 25 18 52 | 25 19 50 | | ○ | { 5 17 8 | 6 0 14 |
| | OCT. . | 25 7 36 | 25 13 41 | | NOV. . | { 20 11 30 | 20 3 47 |
| | NOV. . | 23 20 20 | 24 6 15 | | DEC. . | 20 0 14 | 19 22 20 |
| | DEC. . | 23 9 4 | 23 20 43 | | | | |
| 1135. G. April. 1 4 50 | JAN. . | 21 21 48 | 22 8 48 | 1132. C. 31 22 17 | JAN. . | 18 12 58 | 18 17 15 |
| | FEB. . | 20 10 32 | 20 18 41 | | FEB. . | 17 1 42 | 17 11 5 |
| | MAR. . | 21 23 17 | 22 2 53 | | MAR. . | 18 14 27 | 19 2 37 |
| | APRIL | 20 12 1 | 20 10 12 | | APRIL | 17 3 11 | 17 15 22 |
| | MAY . | 20 0 45 | 19 17 37 | | MAY . | 16 15 55 | 17 1 31 |
| | JUNE . | 18 13 29 | 18 2 14 | | JUNE . | 15 4 39 | 15 9 51 |
| | JULY . | 18 2 13 | 17 13 6 | | JULY . | 14 17 23 | 14 17 25 |
| | AUG. . | 16 14 57 | 16 2 49 | | AUG. . | 13 6 7 | 13 1 16 |
| | SEPT. . | 15 3 41 | 14 19 22 | | SEPT. . | 11 18 51 | 11 10 16 |
| | OCT. . | 14 16 25 | 14 13 59 | | OCT. . | 11 7 35 | 10 21 2 |
| | NOV. . | { 13 5 9 | 13 9 15 | | NOV. . | 9 20 19 | 9 9 51 |
| | ○ | { 27 23 31 | 27 18 6 | | DEC. . | 9 9 3 | 9 0 47 |
| | DEC. . | 12 17 53 | 13 3 35 | | | | |
| 1134. F. 1 10 39 | JAN. . | 11 6 37 | 11 19 39 | 1131. B. April. 1 4 6 | JAN. . | 7 21 47 | 7 17 25 |
| | FEB. . | 9 19 21 | 10 8 59 | | FEB. . | 6 10 31 | 6 10 55 |
| | MAR. . | 11 8 5 | 11 19 11 | | MAR. . | { 7 23 15 | 8 4 15 |
| | APRIL | 9 20 49 | 10 3 21 | | ○ | { 22 17 37 | 22 18 25 |
| | MAY . | { 9 9 33 | 9 10 16 | | APRIL | 6 11 59 | 6 20 21 |
| | ○ | { 24 3 55 | 24 6 30 | | MAY . | 6 0 43 | 6 10 28 |
| | JUNE . | 7 22 17 | 7 17 0 | | JUNE . | 4 13 27 | 4 22 25 |
| | JULY . | 7 11 1 | 7 0 37 | | JULY . | 4 2 11 | 4 8 32 |
| | AUG. . | 5 23 45 | 5 10 15 | | AUG. . | 2 14 55 | 2 17 37 |
| | SEPT. . | 4 12 29 | 3 22 41 | | SEPT. ○ | { 1 3 39 | 1 2 36 |
| | OCT. . | 4 1 13 | 3 14 14 | | | { 15 22 1 | 15 16 52 |
| | NOV. . | { 2 13 57 | 2 8 21 | | | { 30 16 23 | 30 12 8 |
| | ○ | { 17 8 19 | 17 9 39 | | OCT. . | 30 5 7 | 29 22 41 |
| | DEC. . | { 2 2 41 | 2 3 52 | | NOV. . | 28 17 51 | 28 10 27 |
| | | { 31 15 25 | 31 23 4 | | DEC. . | 28 6 35 | 27 23 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1130. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1127. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26 19 19 | 26 13 39 | | ○ | { 8 16 7 | 8 14 16 |
| | FEB. . | 25 8 3 | 25 4 54 | | JAN. . | { 23 10 29 | 23 16 40 |
| | ○ | { 12 2 25 | 12 11 14 | | FEB. . | { 21 23 13 | 22 1 49 |
| April. | MAR. . | { 26 20 48 | 26 20 47 | April. | MAR. . | { 23 11 58 | 23 10 9 |
| <i>d. h. m.</i> | APRIL | 25 9 32 | 25 12 39 | <i>d. h. m.</i> | APRIL | 22 0 42 | 21 18 28 |
| 1 9 54 | MAY . | 24 22 16 | 25 3 45 | 1 3 21 | MAY . | 21 13 26 | 21 3 45 |
| | JUNE . | 23 11 0 | 23 17 36 | | JUNE . | 20 2 10 | 19 14 59 |
| | JULY . | 22 23 44 | 23 6 0 | | ○ | { 4 20 32 | 5 1 18 |
| | AUG. . | 21 12 28 | 21 17 15 | | JULY . | { 19 14 54 | 19 4 39 |
| | ○ | { 5 6 50 | 4 18 8 | | AUG. . | 18 3 38 | 17 20 44 |
| | SEPT. . | { 20 1 12 | 20 3 55 | | SEPT. . | 16 16 22 | 16 14 31 |
| | OCT. . | 19 13 56 | 19 14 30 | | OCT. . | 16 5 6 | 16 8 49 |
| | NOV. . | 18 2 40 | 18 1 14 | | NOV. . | 14 17 50 | 15 2 20 |
| | DEC. . | 17 15 24 | 17 12 14 | | DEC. . | { 14 6 34 | 14 13 1 |
| | | | | | ○ | { 29 0 56 | 28 17 44 |
| 1129. G.F. | JAN. . | 16 4 8 | 15 23 32 | 1126. C. | JAN. . | 12 19 18 | 13 7 18 |
| | FEB. . | { 14 16 52 | 14 11 21 | | FEB. . | 11 8 2 | 11 18 7 |
| | ○ | { 29 11 14 | { 1 1 0 | | MAR. . | 12 20 47 | 13 2 55 |
| March. | MAR. . | 15 5 37 | { 15 0 0 | 1 9 10 | APRIL | 11 9 31 | 11 10 25 |
| 31 15 43 | APRIL | 13 18 21 | 13 18 45 | | MAY . | 10 22 15 | 10 15 47 |
| | MAY . | 13 7 5 | 13 4 31 | | JUNE . | { 9 10 59 | 9 1 20 |
| | JUNE . | 11 19 49 | 11 19 53 | | ○ | { 24 5 21 | 24 12 55 |
| | JULY . | 11 8 33 | 11 11 16 | | JULY . | 8 23 43 | 8 10 57 |
| | AUG. . | { 9 21 17 | 10 2 1 | | AUG. . | 7 12 27 | 6 23 13 |
| | ○ | { 24 15 39 | 24 2 18 | | SEPT. . | 6 1 11 | 5 14 29 |
| | SEPT. . | 8 10 1 | 8 15 50 | | OCT. . | 5 13 55 | 5 8 21 |
| | OCT. . | 7 22 45 | 8 4 41 | | NOV. . | 4 2 39 | 4 3 36 |
| | NOV. . | 6 11 29 | 6 16 42 | | DEC. . | { 3 15 23 | 3 22 41 |
| | DEC. . | 6 0 13 | 6 3 58 | | ○ | { 18 9 45 | 18 4 22 |
| 1128. E. | JAN. . | 4 12 57 | 4 14 31 | 1125. B.A. | JAN. . | { 2 4 7 | 2 16 2 |
| | FEB. . | 3 1 41 | 3 0 30 | | ○ | { 31 16 51 | ... |
| 31 21 32 | MAR. . | 4 14 25 | 4 10 18 | March. | FEB. . | ... | 1 6 38 |
| | APRIL | 3 3 9 | 2 20 31 | 31 14 59 | MAR. . | { 1 5 35 | 1 18 16 |
| | MAY . | 2 15 53 | { 2 7 54 | | APRIL | { 30 18 19 | 31 3 20 |
| | JUNE . | { 1 4 37 | { 31 20 58 | | MAY . | 29 7 3 | 29 10 39 |
| | JULY . | { 30 17 21 | 30 11 49 | | ○ | { 12 14 9 | 12 17 18 |
| | AUG. . | 30 6 5 | 30 3 59 | | JUNE . | { 27 8 31 | 27 0 21 |
| | SEPT. . | 28 18 49 | 28 20 40 | | JULY . | 26 21 15 | 26 8 55 |
| | OCT. . | 27 7 33 | 27 13 1 | | AUG. . | 25 9 59 | 24 19 58 |
| | NOV. . | 26 20 17 | 27 4 18 | | SEPT. . | 23 22 43 | 23 10 2 |
| | DEC. . | 25 9 1 | 25 18 5 | | OCT. . | 23 11 27 | 23 3 1 |
| | | 24 21 45 | 25 6 22 | | NOV. . | 22 0 11 | 21 22 2 |
| | | | | | DEC. . | 21 12 55 | 21 17 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1124. g. d. h. m. March. 31 20 47 | | d. h. m. | d. h. m. | B.C. 1121. D.C. March. d. h. m. 31 14 14 | | d. h. m. | d. h. m. |
| | JAN. . | 20 1 39 | 20 11 56 | | JAN. . | 17 16 49 | 17 10 29 |
| | FEB. . | 18 14 23 | 19 3 48 | | FEB. . | 16 5 33 | 16 0 57 |
| | MAR. . | 20 3 8 | 20 16 38 | | MAR. . | 16 18 18 | 16 16 19 |
| | APRIL | 18 15 52 | 19 2 35 | | APRIL | 15 7 2 | 15 8 4 |
| | MAY . | 18 4 36 | 18 10 30 | | MAY . | 14 19 46 | 14 23 35 |
| | JUNE . | 16 17 20 | 16 17 25 | | JUNE . | 13 8 30 | 13 14 11 |
| | JULY . | 16 6 4 | 16 0 28 | | JULY . | 12 21 14 | 13 3 30 |
| | AUG. . | 14 18 48 | 14 8 41 | | AUG. . | 11 9 58 | 11 15 33 |
| | SEPT. . | 13 7 32 | 12 18 55 | | SEPT. . | 9 22 42 | 10 2 45 |
| | OCT. . | 12 20 16 | 12 7 44 | | OCT. . | 9 11 26 | 9 13 33 |
| | O | 27 14 38 | 27 22 9 | | NOV. . | 8 0 10 | 8 0 19 |
| | NOV. . | 11 9 0 | 10 23 15 | | DEC. . | 7 12 54 | 7 11 9 |
| | DEC. . | 10 21 44 | 10 16 56 | | | | |
| 1123. F. | JAN. . | 9 10 28 | 9 11 42 | 1120. B. | JAN. . | 6 1 38 | 5 22 10 |
| | FEB. . | 7 23 12 | 8 6 5 | | FEB. . | 4 14 22 | 4 9 26 |
| | MAR. . | 9 11 57 | 9 22 46 | | O | 19 8 44 | 19 22 46 |
| April 1 2 36 | APRIL | 8 0 41 | 8 12 52 | 31 20 3 | MAR. . | 6 3 6 | 5 21 19 |
| | O | 22 19 3 | 22 11 35 | | APRIL | 4 15 50 | 4 10 13 |
| | MAY . | 7 13 25 | 8 0 16 | | MAY . | 4 4 34 | 4 0 17 |
| | JUNE . | 6 2 9 | 6 9 28 | | JUNE . | 2 17 18 | 2 15 22 |
| | JULY . | 5 14 53 | 5 17 27 | | JULY . | 2 6 2 | 2 6 55 |
| | AUG. . | 4 3 37 | 4 1 12 | | O | 31 18 46 | 31 22 15 |
| | SEPT. . | 2 16 21 | 2 9 44 | | AUG. . | 15 13 8 | 15 0 59 |
| | | 2 5 5 | 1 19 41 | | SEPT. . | 30 7 30 | 30 12 51 |
| | OCT. O | 16 23 27 | 17 5 21 | | OCT. . | 28 20 14 | 29 2 29 |
| | | 31 17 49 | 31 7 30 | | NOV. . | 28 8 58 | 28 15 9 |
| | NOV. . | 30 6 33 | 29 21 20 | | NOV. . | 26 21 42 | 27 2 52 |
| | DEC. . | 29 19 17 | 29 12 59 | | DEC. . | 26 10 26 | 26 18 44 |
| 1122. E. | JAN. . | 28 8 1 | 28 5 55 | 1119. A. | JAN. . | 24 23 10 | 24 23 50 |
| | FEB. . | 26 20 45 | 26 23 14 | | O | 8 17 32 | 9 3 23 |
| | MAR. . | 28 9 29 | 28 15 54 | | FEB. . | 23 11 54 | 23 9 24 |
| | O | 12 3 51 | 12 2 1 | | MAR. . | 25 0 39 | 24 19 5 |
| 1 8 25 | APRIL | 26 22 13 | 27 7 1 | April. 1 1 52 | APRIL | 23 13 23 | 23 5 33 |
| | MAY . | 26 10 57 | 26 20 7 | | MAY . | 23 2 7 | 22 17 35 |
| | JUNE . | 24 23 41 | 25 7 14 | | JUNE . | 21 14 51 | 21 7 30 |
| | JULY . | 24 12 25 | 24 16 58 | | JULY . | 21 3 35 | 20 23 10 |
| | AUG. . | 23 1 9 | 23 2 8 | | O | 4 21 57 | 4 16 42 |
| | SEPT. . | 21 13 53 | 21 11 31 | | AUG. . | 19 16 19 | 19 15 53 |
| | O | 6 8 15 | 6 6 0 | | SEPT. . | 18 5 3 | 18 8 47 |
| | OCT. . | 21 2 37 | 20 21 41 | | OCT. . | 17 17 47 | 18 0 56 |
| | NOV. . | 19 15 21 | 19 8 51 | | NOV. . | 16 6 31 | 16 15 43 |
| | DEC. . | 19 4 5 | 18 21 7 | | DEC. . | 15 19 15 | 16 4 45 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. | | | | B.C. | | | |
| 1118. | JAN. . | { 14 7 59 | 14 15 57 | 1115. | JAN. . | 10 23 9 | 11 6 52 |
| G. | ○ | { 29 2 21 | 29 3 10 | c. | FEB. . | 9 11 53 | 10 0 1 |
| April. | FEB. . | 12 20 43 | 13 1 33 | April. | MAR. . | 11 0 38 | 11 14 20 |
| <i>d. h. m.</i> | MAR. . | 14 9 28 | 14 10 0 | <i>d. h. m.</i> | APRIL | 9 13 22 | 10 1 36 |
| 1 7 40 | APRIL | 12 22 12 | 12 18 0 | 1 1 7 | MAY . | { 9 2 6 | 9 10 23 |
| | MAY . | 12 10 56 | 12 2 31 | | ○ | { 23 20 23 | 23 13 55 |
| | JUNE . | 10 23 40 | 10 12 34 | | JUNE . | 7 14 50 | 7 17 42 |
| | JULY . | { 10 12 24 | 10 0 57 | | JULY . | 7 3 34 | 7 0 40 |
| | ○ | { 25 6 46 | 25 9 19 | | AUG. . | 5 16 18 | 5 8 19 |
| | AUG. . | 9 1 8 | 8 15 56 | | SEPT. . | 4 5 2 | 3 17 35 |
| | SEPT. . | 7 13 52 | 7 9 9 | | OCT. . | 3 17 46 | 3 5 10 |
| | OCT. . | 7 2 36 | 7 3 33 | | NOV. . | { 2 6 30 | 1 19 22 |
| | NOV. . | 5 15 20 | 5 21 49 | | ○ | { 17 0 52 | 17 9 1 |
| | DEC. . | 5 4 4 | 5 14 40 | | DEC. . | { 1 19 14 | 1 11 59 |
| | | | | | | { 31 7 58 | 31 6 12 |
| 1117. | JAN. . | 3 16 48 | 4 5 13 | | | | |
| F.E. | FEB. . | 2 5 32 | 2 17 9 | 1114. | JAN. . | 29 20 42 | 30 0 47 |
| March. | MAR. . | 2 18 16 | 3 2 45 | B. | FEB. . | 28 9 26 | 28 18 17 |
| 31 13 29 | APRIL | { 1 7 0 | 1 10 39 | | MAR. . | 29 22 10 | 30 9 39 |
| | | { 30 19 44 | 30 17 40 | 1 6 56 | APRIL | 28 10 54 | 28 22 23 |
| | MAY . | 30 8 23 | 30 0 54 | | ○ | { 13 5 16 | 12 20 9 |
| | JUNE . | 23 21 12 | 23 9 23 | | MAY . | { 27 23 38 | 28 8 39 |
| | JULY . | 23 9 56 | 27 20 22 | | JUNE . | 26 12 22 | 26 17 14 |
| | AUG. . | 26 22 40 | 26 10 12 | | JULY . | 26 1 6 | 26 1 10 |
| | SEPT. . | 25 11 24 | 25 2 57 | | AUG. . | 24 13 50 | 24 9 24 |
| | OCT. . | 25 0 8 | 24 21 48 | | SEPT. . | 23 2 34 | 22 18 44 |
| | NOV. . | 23 12 52 | 23 17 17 | | OCT. . | 22 15 18 | 22 5 41 |
| | ○ | { 8 7 14 | 8 2 58 | | NOV. . | 21 4 2 | 20 18 28 |
| | DEC. . | { 23 1 36 | 23 11 41 | | DEC. . | 20 16 46 | 20 9 7 |
| 1116. | JAN. . | 21 14 20 | 22 3 43 | 1113. | JAN. . | 19 5 30 | 19 1 15 |
| D. | FEB. . | 20 3 4 | 20 16 45 | A.G. | FEB. . | 17 18 14 | 17 18 13 |
| 31 19 18 | MAR. . | 21 15 49 | 22 2 56 | March. | MAR. . | 18 6 59 | 18 10 58 |
| | APRIL | 20 4 33 | 20 10 55 | 31 12 45 | ○ | { 2 1 21 | 2 2 9 |
| | MAY . | 19 17 17 | 19 17 43 | | APRIL | { 16 19 43 | 17 3 2 |
| | ○ | { 3 11 39 | 3 12 58 | | MAY . | 16 8 27 | 16 17 12 |
| | JUNE . | { 18 6 1 | 18 0 26 | | JUNE . | 14 21 11 | 15 5 23 |
| | JULY . | 17 18 45 | 17 8 11 | | JULY . | 14 9 55 | 14 15 55 |
| | AUG. . | 16 7 29 | 15 17 53 | | AUG. . | 12 22 39 | 13 1 31 |
| | SEPT. . | 14 20 13 | 14 6 33 | | SEPT. . | { 11 11 23 | 11 10 58 |
| | OCT. . | 14 8 57 | 13 22 11 | | ○ | { 26 5 45 | 26 0 25 |
| | NOV. . | { 12 21 41 | 12 16 23 | | OCT. . | 11 0 7 | 10 20 53 |
| | ○ | { 27 16 3 | 27 18 37 | | NOV. . | 9 12 51 | 9 7 35 |
| | DEC. . | 12 10 25 | 12 11 49 | | DEC. . | 9 1 35 | 8 19 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1112. F. March. <i>d. h. m.</i> 31 13 33 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1109. C.B. March. <i>d. h. m.</i> 31 12 0 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 7 14 19 | 7 7 52 | | JAN. . | { 5 5 29 | 5 14 55 |
| | FEB. . | 6 3 3 | 5 21 31 | | ○ | { 19 23 51 | 19 21 59 |
| | MAR. . | { 7 15 48 | 7 12 9 | | FEB. . | 3 18 13 | 4 1 9 |
| | ○ | { 22 10 10 | 22 19 4 | | MAR. . | 4 6 58 | 4 9 55 |
| | APRIL | 6 4 32 | 6 3 38 | | APRIL | 2 19 42 | 2 17 50 |
| | MAY . | 5 17 16 | 5 19 9 | | MAY . | { 2 8 26 | 2 1 47 |
| | JUNE . | 4 6 0 | 4 10 18 | | JUNE . | { 31 21 10 | 31 10 49 |
| | JULY . | 3 18 44 | 4 0 27 | | ○ | { 30 9 54 | 29 21 54 |
| | AUG. . | { 2 7 28 | 2 13 22 | | JULY . | { 15 4 16 | 15 12 16 |
| | ○ | { 31 20 12 | { 1 1 14 | | AUG. . | { 29 22 38 | 29 11 38 |
| | SEPT. . | { 15 14 34 | { 15 1 51 | | SEPT. . | 28 11 22 | 28 3 56 |
| | OCT. . | { 30 8 56 | { 30 12 26 | | OCT. . | 27 0 6 | 26 22 5 |
| | NOV. . | 29 21 40 | 29 23 24 | | NOV. . | 26 12 50 | 26 16 48 |
| | DEC. . | 28 10 24 | 28 10 13 | | DEC. . | 25 1 34 | 25 10 89 |
| | | 27 23 8 | 27 21 3 | | | 24 14 18 | 25 2 28 |
| 1111. E. April. 1 0 22 | JAN. . | 26 11 52 | 26 7 56 | 1108. A. 31 17 49 | ○ | { 8 8 40 | 8 1 59 |
| | FEB. . | 25 0 36 | 24 19 11 | | JAN. . | { 23 3 2 | 23 15 41 |
| | ○ | { 11 18 58 | 12 8 38 | | FEB. . | 21 15 46 | 22 2 17 |
| | MAR. . | { 26 13 20 | 26 7 13 | | MAR. . | 23 4 30 | 23 10 46 |
| | APRIL | 25 2 4 | 24 20 29 | | APRIL | 21 17 14 | 21 17 58 |
| | MAY . | 24 14 48 | 24 10 59 | | MAY . | 21 5 58 | 21 0 58 |
| | JUNE . | 23 3 32 | 23 2 23 | | JUNE . | 19 18 42 | 19 8 37 |
| | JULY . | 22 16 16 | 22 18 4 | | ○ | { 4 13 4 | 4 19 56 |
| | AUG. . | 21 5 0 | 21 9 21 | | JULY . | { 19 7 26 | 18 18 15 |
| | ○ | { 4 23 22 | 4 10 27 | | AUG. . | 17 20 10 | 17 6 37 |
| | SEPT. . | { 19 17 44 | 19 23 49 | | SEPT. . | 16 8 54 | 15 22 4 |
| | OCT. . | 19 6 28 | 19 13 13 | | OCT. . | 15 21 38 | 15 16 7 |
| | NOV. . | 17 19 12 | 18 1 33 | | NOV. . | 14 10 22 | 14 11 38 |
| | DEC. . | 17 7 56 | 17 12 52 | | DEC. . | { 13 23 6 | 14 6 44 |
| | | | | | ○ | { 23 17 28 | 23 13 6 |
| 1110. D. 1 6 11 | JAN. . | 15 20 40 | 15 23 12 | 1107. G. 31 23 38 | JAN. . | 12 11 50 | 13 0 4 |
| | FEB. . | 14 9 24 | 14 8 47 | | FEB. . | 11 0 34 | 11 14 8 |
| | MAR. . | 15 22 9 | 15 18 5 | | MAR. . | 12 13 19 | 13 2 3 |
| | APRIL | 14 10 53 | 14 3 48 | | APRIL | 11 2 3 | 11 10 5 |
| | MAY . | 13 23 37 | 13 14 33 | | MAY . | 10 14 47 | 10 18 |
| | JUNE . | 12 12 21 | 12 3 35 | | JUNE . | { 9 3 31 | 9 0 4 |
| | JULY . | 12 1 5 | 11 18 29 | | ○ | { 23 21 54 | 23 23 5 |
| | AUG. . | 10 13 49 | 10 10 56 | | JULY . | 8 16 15 | 8 7 5 |
| | SEPT. . | 9 2 33 | 9 4 7 | | AUG. . | 7 4 59 | 6 16 8 |
| | OCT. . | 8 15 17 | 8 21 0 | | SEPT. . | 5 17 43 | 5 3 5 |
| | NOV. . | 7 4 1 | 7 12 46 | | OCT. . | 5 6 27 | 4 18 |
| | DEC. . | 6 16 45 | 7 2 48 | | NOV. . | 3 19 11 | 3 11 |
| | | | | | DEC. . | 3 7 55 | 3 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1106. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1103. B. <i>d. h. m.</i> March. 31 22 53 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 1 20 39 | 2 1 24 | | JAN. . | 28 0 33 | 27 18 36 |
| | FEB. . | { 31 9 23 | 31 19 34 | | FEB. . | 26 13 17 | 26 8 26 |
| | | ... | ... | | MAR. . | 28 2 1 | 27 23 13 |
| | MAR. . | { 1 22 7 | 2 11 16 | | APRIL | 26 14 45 | 26 14 36 |
| April. <i>d. h. m.</i> 1 5 26 | APRIL | { 31 10 51 | 31 23 57 | | MAY . | 26 3 29 | 26 6 2 |
| | MAY . | 29 23 35 | 30 9 52 | | JUNE . | 24 16 13 | 24 20 51 |
| | JUNE . | 29 12 19 | 29 17 51 | | JULY . | 24 4 57 | 24 10 37 |
| | JULY . | 28 1 3 | 28 0 55 | | AUG. . | 22 17 41 | 22 23 15 |
| | AUG. . | 27 13 47 | 27 8 15 | | SEPT. . | 21 6 25 | 21 11 2 |
| | SEPT. . | 26 2 31 | 25 16 44 | | OCT. . | 20 19 9 | 20 22 17 |
| | OCT. . | 24 15 15 | 24 3 12 | | NOV. . | 19 7 53 | 19 9 15 |
| | NOV. . | 24 3 59 | 23 16 8 | | DEC. . | 18 20 37 | 18 20 4 |
| | DEC. . | { 7 22 21 | 8 6 45 | | | | |
| | | { 22 16 43 | 22 7 33 | | | | |
| | | 22 5 27 | 22 0 58 | 1102. A. | JAN. . | 17 9 21 | 17 6 44 |
| 1105. E.D. March. 31 11 15 | JAN. . | 20 18 11 | 20 19 20 | | FEB. . | 15 22 5 | 15 17 29 |
| | FEB. . | 19 6 55 | 19 13 21 | | | { 2 16 27 | 3 6 23 |
| | MAR. . | 19 19 40 | 20 5 47 | April. 1 4 42 | MAR. . | { 17 10 50 | 17 4 47 |
| | APRIL | 18 8 24 | 18 19 49 | | APRIL | 15 23 34 | 15 17 9 |
| | | { 3 2 46 | 2 13 45 | | MAY . | 15 12 18 | 15 6 52 |
| | MAY . | { 17 21 8 | 13 7 17 | | JUNE . | 14 1 2 | 13 22 0 |
| | JUNE . | 16 9 52 | 16 16 45 | | JULY . | 13 13 46 | 13 13 35 |
| | JULY . | 15 22 36 | 16 1 3 | | AUG. . | { 12 2 30 | 12 5 23 |
| | AUG. . | 14 11 20 | 14 9 12 | | | { 26 20 52 | 26 8 53 |
| | SEPT. . | 13 0 4 | 12 18 7 | | SEPT. . | 10 15 14 | 10 20 35 |
| | OCT. . | { 12 12 43 | 12 4 20 | | OCT. . | 10 3 53 | 10 10 49 |
| | | { 27 7 10 | 27 13 27 | | NOV. . | 8 16 42 | 8 23 54 |
| | NOV. . | 11 1 32 | 10 16 12 | | DEC. . | 8 5 26 | 8 11 47 |
| | DEC. . | 10 14 16 | 10 5 51 | | | | |
| 1104. C. 31 17 4 | JAN. . | 9 3 0 | 8 21 3 | 1101. G.F. | JAN. . | 6 18 11 | 6 22 33 |
| | FEB. . | 7 15 44 | 7 13 26 | | FEB. . | { 5 6 55 | 5 8 18 |
| | MAR. . | 9 4 29 | 9 6 15 | March. 31 10 31 | | { 20 1 17 | 20 10 43 |
| | APRIL | { 7 17 13 | 7 22 37 | | MAR. . | 5 19 39 | 5 17 24 |
| | | { 22 11 35 | 22 9 34 | | APRIL | 4 8 23 | 4 2 43 |
| | MAY . | 7 5 57 | 7 13 40 | | MAY . | 3 21 7 | 3 12 35 |
| | JUNE . | 5 18 41 | 6 2 57 | | JUNE . | 2 9 51 | 2 0 19 |
| | JULY . | 5 7 25 | 5 14 25 | | | { 1 22 35 | 1 14 10 |
| | AUG. . | 3 20 9 | 4 0 39 | | JULY . | { 31 11 19 | 31 6 0 |
| | SEPT. . | 2 8 53 | 2 10 20 | | | { 15 5 41 | 15 0 45 |
| | | { 1 21 37 | 1 20 8 | | AUG. . | { 30 0 3 | 29 23 8 |
| | OCT. ○ | { 16 15 59 | 16 13 47 | | SEPT. . | 23 12 47 | 23 16 33 |
| | | { 31 10 21 | 31 6 34 | | OCT. . | 23 1 31 | 23 9 13 |
| | NOV. . | 29 23 5 | 29 17 45 | | NOV. . | 23 14 15 | 23 0 20 |
| | DEC. . | 29 11 49 | 29 5 44 | | DEC. . | 23 2 59 | 23 13 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1100. E. March. <i>d. h. m.</i> 31 16 19 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1097. B.A. March. <i>d. h. m.</i> 31 9 46 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 24 15 43 | 25 0 30 | | JAN. . | 22 6 53 | 22 14 32 |
| | ○ | { 8 10 5 | 8 10 36 | | FEB. . | 20 19 37 | 21 7 30 |
| | FEB. . | { 23 4 27 | 23 9 46 | | MAR. . | 21 8 21 | 21 21 38 |
| | MAR. . | 24 17 11 | 24 17 48 | | APRIL | 19 21 5 | 20 8 51 |
| | APRIL | 23 5 55 | 23 1 27 | | MAY . | 19 9 49 | 19 17 42 |
| | MAY . | 22 18 39 | 22 9 41 | | ○ | { 3 4 11 | 2 20 30 |
| | JUNE . | 21 7 23 | 20 19 34 | | JUNE . | { 17 22 33 | 18 1 9 |
| | JULY . | 20 20 7 | 20 7 56 | | JULY . | 17 11 17 | 17 8 21 |
| | ○ | { 4 14 29 | 4 17 6 | | AUG. . | 16 0 1 | 15 16 18 |
| | AUG. . | { 19 8 51 | 18 23 4 | | SEPT. . | 14 12 45 | 14 1 51 |
| | SEPT. . | 17 21 35 | 17 16 35 | | OCT. . | 14 1 29 | 13 13 35 |
| | OCT. . | 17 10 19 | 17 11 22 | | NOV. . | { 12 14 13 | 12 3 45 |
| | NOV. . | 15 23 3 | 16 5 58 | | ○ | { 27 8 35 | 27 17 45 |
| | DEC. . | 15 11 47 | 15 23 0 | | DEC. . | 12 2 57 | 11 20 9 |
| 1099. D. 31 22 8 | JAN. . | 14 0 31 | 14 13 38 | 1096. G. 31 15 35 | JAN. . | 10 15 41 | 10 13 59 |
| | FEB. . | 12 13 15 | 13 1 20 | | FEB. . | 9 4 25 | 9 8 9 |
| | MAR. . | 14 2 0 | 14 10 42 | | MAR. . | 10 17 10 | 11 1 22 |
| | APRIL | 12 14 44 | 12 18 18 | | APRIL | 9 5 54 | 9 16 35 |
| | MAY . | 12 3 28 | 12 1 7 | | MAY . | { 8 18 38 | 9 5 19 |
| | JUNE . | 10 16 12 | 10 8 16 | | ○ | { 23 13 0 | 23 3 11 |
| | JULY . | 10 4 56 | 9 16 49 | | JUNE . | 7 7 22 | 7 15 43 |
| | AUG. . | 8 17 40 | 8 3 47 | | JULY . | 6 20 6 | 7 0 43 |
| | SEPT. . | 7 6 24 | 6 17 47 | | AUG. . | 5 8 50 | 5 9 2 |
| | OCT. . | 6 19 8 | 6 10 43 | | SEPT. . | 3 21 34 | 3 17 39 |
| | NOV. . | 5 7 52 | 5 5 44 | | OCT. . | 3 10 18 | 3 3 20 |
| | DEC. . | { 4 20 36 | 5 1 16 | | NOV. . | 1 23 2 | 1 14 26 |
| | ○ | { 19 14 53 | 19 11 51 | | DEC. . | { 1 11 46 | 1 3 3 |
| 1098. C. April. 1 3 57 | JAN. . | 3 9 20 | 3 19 42 | 1095. F. 31 21 24 | JAN. . | 29 13 14 | 29 9 0 |
| | FEB. . | 1 22 4 | 2 11 39 | | FEB. . | 28 1 59 | 28 1 26 |
| | MAR. . | 3 10 49 | 4 0 32 | | MAR. . | 29 14 43 | 29 17 56 |
| | APRIL | 1 23 33 | 2 10 32 | | ○ | { 13 9 5 | 13 9 48 |
| | MAY . | { 1 12 17 | 1 18 24 | | APRIL | { 28 3 27 | 28 9 38 |
| | ○ | { 31 1 1 | 31 1 11 | | MAY . | 27 16 11 | 27 23 58 |
| | JUNE . | { 14 19 23 | 14 19 26 | | JUNE . | 26 4 55 | 26 12 24 |
| | JULY . | 29 2 29 | 23 15 52 | | JULY . | 25 17 39 | 25 23 23 |
| | AUG. . | 27 15 13 | 27 1 50 | | AUG. . | 24 6 23 | 24 9 31 |
| | SEPT. . | 26 3 57 | 25 14 36 | | SEPT. . | 22 19 7 | 22 19 25 |
| | OCT. . | 25 16 41 | 25 6 13 | | OCT. . | 22 7 51 | 22 5 41 |
| | NOV. . | 24 5 25 | 24 0 23 | | NOV. . | 20 20 35 | 20 16 32 |
| | ○ | { 8 23 47 | 9 3 35 | | DEC. . | 20 9 19 | 20 4 1 |
| | DEC. . | { 23 18 9 | 23 19 42 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 1094. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1091. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | 18 22 3 | 18 16 12 | March. | JAN. . | 15 13 12 | 15 23 29 |
| April. | FEB. . | 17 10 47 | 17 5 15 | March. | ○ | 30 7 34 | 30 5 35 |
| <i>d. h. m.</i> | MAR.. | 18 23 31 | 18 19 17 | March. | FEB. . | 14 1 56 | 14 9 28 |
| 1 3 12 | ○ | 17 12 53 | 3 2 44 | March. | MAR.. | 15 14 41 | 15 17 51 |
| | APRIL | 17 12 15 | 17 10 12 | March. | APRIL | 14 3 25 | 14 1 25 |
| | MAY.. | 17 0 59 | 17 1 35 | March. | MAY . | 13 16 9 | 13 9 5 |
| | JUNE . | 15 13 43 | 15 16 50 | March. | JUNE . | 12 4 53 | 11 17 55 |
| | JULY . | 15 2 27 | 15 7 22 | March. | JULY . | 11 17 37 | 11 4 56 |
| | AUG. . | 13 15 11 | 13 20 49 | March. | ○ | 26 11 59 | 26 16 25 |
| | SEPT. . | 12 3 55 | 12 9 17 | March. | AUG. . | 10 6 21 | 9 18 44 |
| | ○ | 26 22 17 | 26 9 42 | March. | SEPT. . | 8 19 5 | 8 11 18 |
| | OCT. . | 11 16 39 | 11 21 0 | March. | OCT. . | 8 7 49 | 8 5 45 |
| | NOV. . | 10 5 23 | 10 8 15 | March. | NOV. . | 6 20 33 | 7 0 48 |
| | DEC. . | 9 18 7 | 9 19 10 | March. | DEC. . | 6 9 17 | 6 18 52 |
| 1093. | | | | 1090. | | | |
| D.C. | JAN. . | 8 6 51 | 8 5 46 | G. | JAN. . | 4 22 1 | 5 10 46 |
| March. | FEB. . | 6 19 35 | 6 16 12 | G. | ○ | 19 16 23 | 19 10 8 |
| 31 9 1 | MAR.. | 7 8 20 | 7 2 53 | April. | FEB. . | 3 10 45 | 3 23 53 |
| | ○ | 22 2 42 | 22 16 7 | April. | MAR.. | 4 23 30 | 5 10 16 |
| | APRIL | 5 21 4 | 5 14 23 | April. | APRIL | 3 12 14 | 3 18 31 |
| | MAY . | 5 9 48 | 5 3 10 | April. | MAY . | 3 0 58 | 3 1 30 |
| | JUNE . | 3 22 32 | 3 17 28 | April. | JUNE . | 1 13 42 | 1 8 18 |
| | JULY . | 3 11 16 | 3 8 57 | April. | ○ | 1 2 26 | 30 15 59 |
| | AUG. . | 2 0 0 | 2 1 0 | April. | JULY ○ | 15 20 48 | 16 3 0 |
| | ○ | 31 12 44 | 31 16 51 | April. | ○ | 30 15 10 | 30 1 42 |
| | SEPT. . | 15 7 6 | 14 18 29 | April. | AUG. . | 29 3 54 | 28 14 12 |
| | OCT. . | 30 1 23 | 30 7 55 | April. | SEPT. . | 27 16 38 | 27 5 48 |
| | NOV. . | 28 2 56 | 28 10 25 | April. | OCT. . | 27 5 22 | 27 0 0 |
| | DEC. . | 27 15 40 | 27 21 43 | April. | NOV. . | 25 18 6 | 25 19 32 |
| 1092. | | | | 1089. | | | |
| B. | JAN. . | 26 4 24 | 26 7 47 | F.E. | ○ | 9 1 12 | 8 21 45 |
| 31 14 50 | FEB. . | 24 17 8 | 24 16 56 | March. | JAN. . | 23 19 34 | 24 7 58 |
| | MAR.. | 26 5 52 | 26 1 43 | March. | FEB. . | 22 8 18 | 22 22 21 |
| | APRIL | 24 18 36 | 24 11 0 | March. | MAR.. | 22 21 2 | 23 9 38 |
| | MAY . | 24 7 20 | 23 21 38 | March. | APRIL | 21 9 46 | 21 18 24 |
| | JUNE . | 22 20 4 | 22 10 19 | March. | MAY . | 20 22 30 | 21 1 34 |
| | JULY . | 22 8 48 | 22 1 15 | March. | JUNE . | 19 11 14 | 19 8 15 |
| | AUG. . | 20 21 32 | 20 18 0 | March. | ○ | 4 5 36 | 4 6 23 |
| | SEPT. . | 19 10 16 | 19 11 39 | March. | JULY . | 18 23 58 | 18 15 33 |
| | OCT. . | 18 23 0 | 19 5 3 | March. | AUG. . | 17 12 42 | 17 0 29 |
| | NOV. . | 17 11 44 | 17 21 14 | March. | SEPT. . | 16 1 26 | 15 11 52 |
| | DEC. . | 17 0 23 | 17 11 27 | March. | OCT. . | 15 14 10 | 15 2 10 |
| | | | | March. | NOV. . | 14 2 54 | 13 19 10 |
| | | | | March. | DEC. . | 13 15 38 | 13 13 57 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1088. D. March. d. h. m. 31 14 5 | | d. h. m. | d. h. m. | B.C. 1085. A.G. March. d. h. m. 31 7 32 | | d. h. m. | d. h. m. |
| | JAN. . | 12 4 22 | 12 9 6 | | JAN. . | 9 19 32 | 9 14 15 |
| | FEB. . | 10 17 6 | 11 3 2 | | FEB. . | 8 8 16 | 8 2 35 |
| | MAR. . | 12 5 51 | 12 18 35 | | MAR. . | 8 21 1 | 8 15 49 |
| | APRIL | 10 18 35 | 11 7 11 | | APRIL | { 7 9 45 | 7 6 3 |
| | MAY . | 10 7 19 | 10 17 8 | | ○ | { 22 4 7 | 22 10 17 |
| | JUNE . | 8 20 3 | 9 1 13 | | MAY . | 6 22 29 | 6 21 6 |
| | JULY . | 8 8 47 | 8 8 33 | | JUNE . | 5 11 13 | 5 12 30 |
| | AUG. . | 6 21 31 | 6 16 10 | | JULY . | 4 23 57 | 5 3 35 |
| | SEPT. . | 5 10 15 | 5 0 58 | | AUG. . | 3 12 41 | 3 17 51 |
| | OCT. . | 4 22 59 | 4 11 40 | | SEPT. . | 2 1 25 | 2 7 5 |
| | NOV. . | { 3 11 43 | 3 0 38 | | OCT. . | { 1 14 9 | 1 19 26 |
| | ○ | { 18 6 5 | 18 15 24 | | | { 31 2 53 | 31 7 5 |
| | DEC. . | 3 0 27 | 2 15 53 | | NOV. . | 29 15 37 | 29 18 14 |
| 1087. C. | JAN. . | { 1 13 11 | 1 8 56 | 1084. F. | JAN. . | 27 17 5 | 27 15 12 |
| 31 19 54 | FEB. . | { 31 1 55 | 31 2 51 | | FEB. . | 26 5 49 | 26 1 25 |
| | ... | ... | ... | | ○ | { 13 0 11 | 13 13 51 |
| | MAR. . | { 1 14 40 | 1 20 31 | 31 13 21 | MAR. . | { 27 18 34 | 27 12 10 |
| | APRIL | { 31 3 24 | 31 12 41 | | APRIL | 26 7 18 | 26 0 1 |
| | ○ | { 14 10 30 | 14 1 55 | | MAY . | 25 20 2 | 25 13 25 |
| | MAY . | { 29 4 52 | 29 14 19 | | JUNE . | 24 8 46 | 24 4 22 |
| | JUNE . | 27 17 36 | 28 0 3 | | JULY . | 23 21 30 | 23 20 11 |
| | JULY . | 27 6 20 | 27 8 45 | | AUG. . | 22 10 14 | 22 12 38 |
| | AUG. . | 25 19 4 | 25 17 20 | | ○ | { 6 4 36 | 5 17 7 |
| | SEPT. . | 24 7 48 | 24 2 38 | | SEPT. . | { 20 22 58 | 21 4 27 |
| | OCT. . | 23 20 32 | 23 13 5 | | OCT. . | 20 11 42 | 20 19 14 |
| | ○ | { 7 14 54 | 7 21 35 | | NOV. . | 19 0 26 | 19 8 40 |
| | NOV. . | { 22 9 16 | 22 0 58 | | DEC. . | 18 13 10 | 18 20 39 |
| | DEC. . | 21 22 0 | 21 14 20 | | | | |
| 1086. B. | JAN. . | 20 10 44 | 20 5 3 | 1083. E. | JAN. . | 17 1 54 | 17 7 13 |
| April. 1 1 43 | FEB. . | 18 23 28 | 18 20 52 | | FEB. . | 15 14 38 | 15 16 35 |
| | MAR. . | 20 12 12 | 20 13 10 | | ○ | { 2 9 0 | 2 17 56 |
| | APRIL | 19 0 56 | 19 5 13 | 31 19 10 | MAR. . | { 17 3 22 | 17 1 14 |
| | ○ | { 3 19 18 | 3 17 7 | | APRIL | 15 16 6 | 15 9 56 |
| | MAY . | { 18 13 40 | 18 20 14 | | MAY . | 15 4 50 | 14 19 35 |
| | JUNE . | 17 2 24 | 17 9 44 | | JUNE . | 13 17 34 | 13 7 6 |
| | JULY . | 16 15 8 | 16 21 40 | | JULY . | 13 6 13 | 12 20 54 |
| | AUG. . | 15 3 52 | 15 8 24 | | AUG. . | { 11 19 2 | 11 12 57 |
| | SEPT. . | 13 16 36 | 13 18 36 | | ○ | { 26 13 24 | 26 8 52 |
| | OCT. . | { 13 5 20 | 13 4 51 | | SEPT. . | 10 7 46 | 10 6 29 |
| | ○ | { 27 23 42 | 27 21 36 | | OCT. . | 9 20 30 | 10 0 24 |
| | NOV. . | 11 18 4 | 11 15 30 | | NOV. . | 8 9 14 | 8 17 30 |
| | DEC. . | 11 6 48 | 11 2 36 | | DEC. . | 7 21 58 | 8 8 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--|---|--|---|---|--|--|
| B.C. 1082. D. April. d. h. m. 1 0 58 | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. ○ SEPT. . OCT. . NOV. . DEC. . | d. h. m. 6 10 42 4 23 26 19 17 48 6 12 11 5 0 55 4 13 39 3 2 23 2 15 7 1 3 51 15 22 13 30 16 35 29 5 19 28 18 3 27 6 47 26 19 31 | d. h. m. 6 22 2 5 8 52 19 17 53 6 17 50 5 1 32 4 8 52 2 16 53 2 2 40 31 15 4 16 0 59 30 6 23 29 0 10 28 19 16 27 14 7 27 7 16 | B.C. 1079. G. March. d. h. m. 31 18 25 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | d. h. m. 3 1 52 1 14 36 3 3 21 1 16 5 1 4 49 30 17 33 14 11 55 29 6 17 28 19 1 27 7 45 25 20 29 25 9 13 23 21 57 8 16 19 23 10 41 | d. h. m. 3 3 29 1 22 4 3 14 48 2 4 49 1 16 2 31 0 59 14 3 7 29 8 40 28 16 10 27 0 26 25 10 17 24 22 9 23 12 14 9 2 28 23 4 18 |
| 1081. C.B. March. 31 6 47 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | 25 8 15 23 20 59 24 9 44 22 22 28 22 11 12 20 23 56 20 12 40 19 1 24 17 14 8 17 2 52 15 15 36 15 4 20 29 22 42 | 25 21 46 24 9 22 24 18 29 23 1 52 22 8 35 20 15 40 20 0 16 18 11 22 17 1 31 16 18 35 15 13 41 15 9 14 29 20 39 | 1078. F. April. 1 0 14 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 21 23 25 20 12 9 22 0 53 20 13 37 20 2 21 3 20 43 18 15 5 18 3 49 16 16 33 15 5 17 14 18 1 13 6 45 12 19 29 | 21 21 42 20 15 25 22 8 16 20 23 21 20 12 12 3 10 13 18 22 56 18 8 14 16 16 59 15 2 4 14 12 8 12 23 15 12 11 47 |
| 1080. A. 31 12 36 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | 13 17 4 12 5 48 13 18 32 12 7 16 11 20 0 10 8 44 25 3 6 9 21 23 8 10 12 6 22 56 6 11 40 5 0 24 4 13 8 19 7 30 | 14 3 35 12 19 25 14 8 8 12 18 1 12 1 49 10 8 33 25 1 56 9 15 34 7 23 40 6 9 52 5 22 45 4 14 29 4 8 28 19 12 29 | 1077. E.D. March. 31 6 3 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 11 8 13 9 20 57 10 9 42 8 22 26 23 16 48 8 11 10 6 23 54 6 12 33 5 1 22 3 14 6 3 2 50 1 15 34 1 4 18 30 17 2 | 11 1 33 9 16 39 10 8 31 9 0 36 23 17 21 8 16 9 7 6 32 6 19 25 5 6 56 3 17 36 3 4 1 1 14 35 1 1 23 30 12 43 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1076. C. March. d. h. m. 31 11 51 | | d. h. m. | d. h. m. | B.C. 1073. G.F. March. d. h. m. 31 5 18 | | d. h. m. | d. h. m. |
| | JAN. . | 29 5 46 | 29 0 25 | | JAN. . | 26 20 56 | 27 7 56 |
| | FEB. . | 27 18 31 | 27 12 52 | | ○ | { 10 15 18 | 10 18 6 |
| | MAR. . | 29 7 15 | 29 2 19 | | FEB. . | { 25 9 40 | 25 17 38 |
| | ○ | { 13 1 37 | 13 10 19 | | MAR. . | 25 22 25 | 26 1 42 |
| | APRIL | { 27 19 59 | 27 16 47 | | APRIL | 24 11 9 | 24 8 56 |
| | MAY . | 27 8 43 | 27 8 0 | | MAY . | 23 23 53 | 23 16 22 |
| | JUNE . | 25 21 27 | 25 23 24 | | JUNE . | 22 12 37 | 22 1 5 |
| | JULY . | 25 10 11 | 25 14 21 | | JULY . | 22 1 21 | 21 12 7 |
| | AUG. . | 23 22 55 | 24 4 24 | | ○ | { 5 19 43 | 6 0 7 |
| | SEPT. . | 22 11 39 | 22 17 29 | | AUG. . | { 20 14 5 | 20 2 2 |
| | ○ | { 7 6 1 | 6 17 43 | | SEPT. . | 19 2 49 | 18 18 47 |
| | OCT. . | { 22 0 23 | 22 5 42 | | OCT. . | 18 15 33 | 18 13 32 |
| | NOV. . | 20 13 7 | 20 17 12 | | NOV. . | 17 4 17 | 17 8 50 |
| | DEC. . | 20 1 51 | 20 4 5 | | DEC. . | 16 17 1 | 17 3 4 |
| 1075. B. 31 17 40 | JAN. . | 18 14 35 | 18 14 24 | 1072. E. 31 11 7 | JAN. . | { 15 5 45 | 15 18 58 |
| | FEB. . | 17 3 19 | 17 0 22 | | ○ | { 30 0 7 | 29 18 13 |
| | MAR. . | 18 16 3 | 18 10 29 | | FEB. . | 13 18 29 | 14 7 56 |
| | ○ | { 2 10 25 | 2 23 26 | | MAR. . | 15 7 13 | 15 18 6 |
| | APRIL | { 17 4 47 | 16 21 26 | | APRIL | 13 19 57 | 14 2 7 |
| | MAY . | 16 17 31 | 16 9 50 | | MAY . | 13 8 41 | 13 8 57 |
| | JUNE . | 15 6 15 | 14 23 58 | | JUNE . | 11 21 25 | 11 15 42 |
| | JULY . | 14 18 59 | 14 15 36 | | JULY . | { 11 10 9 | 10 23 27 |
| | AUG. . | 13 7 43 | 13 8 3 | | ○ | { 26 4 31 | 26 10 9 |
| | SEPT. . | { 11 20 27 | 12 0 27 | | AUG. . | 9 22 53 | 9 9 15 |
| | ○ | { 26 14 49 | 26 2 48 | | SEPT. . | 8 11 37 | 7 21 56 |
| | OCT. . | 11 9 11 | 11 16 5 | | OCT. . | 8 0 21 | 7 18 40 |
| | NOV. . | 9 21 55 | 10 6 26 | | NOV. . | 6 13 5 | 6 7 57 |
| | DEC. . | 9 10 39 | 9 19 14 | | DEC. . | 6 1 49 | 6 3 29 |
| 1074. A. 31 23 29 | JAN. . | 7 23 23 | 8 6 26 | 1071. D. 31 16 56 | JAN. . | { 4 14 33 | 4 22 36 |
| | FEB. . | 6 12 7 | 6 16 13 | | ○ | { 19 8 55 | 19 6 17 |
| | MAR. . | 8 0 52 | 8 0 58 | | FEB. . | 3 3 17 | 3 15 48 |
| | APRIL | 6 13 36 | 6 9 19 | | MAR. . | 4 16 2 | 5 5 57 |
| | MAY . | 6 2 20 | 5 18 9 | | APRIL | 3 4 46 | 3 17 6 |
| | JUNE . | 4 15 4 | 4 4 31 | | MAY . | 2 17 30 | 3 1 48 |
| | JULY . | 4 3 48 | 3 17 7 | | JUNE . | { 1 6 14 | 1 9 10 |
| | AUG. . | 2 16 32 | 2 8 10 | | ○ | { 30 13 58 | 30 15 48 |
| | SEPT. . | { 1 5 16 | 1 1 13 | | JULY . | { 30 7 42 | 29 23 19 |
| | ○ | { 30 18 0 | 30 19 18 | | AUG. . | 28 20 26 | 28 8 29 |
| | OCT. . | 30 6 44 | 30 13 12 | | SEPT. . | 27 9 10 | 26 20 4 |
| | NOV. . | 28 19 28 | 29 5 42 | | OCT. . | 26 21 54 | 26 10 26 |
| | DEC. . | 28 8 12 | 28 20 1 | | NOV. . | 25 10 38 | 25 3 20 |
| | | | | | DEC. . | 24 23 22 | 24 21 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1070. C. March. d. h. m. 31 22 44 | JAN. . | d. h. m. 23 12 6 | d. h. m. 23 16 44 | B.C. 1067. F. March. d. h. m. 31 16 11 | JAN. . | d. h. m. 20 3 16 | d. h. m. 19 22 42 |
| | FEB. . | 22 0 51 | 22 10 24 | | FEB. . | 18 16 0 | 18 10 28 |
| | MAR. . | 23 13 35 | 24 1 44 | | MAR. . | 20 4 45 | 19 23 5 |
| | APRIL | 22 2 19 | 22 14 18 | | APRIL | 18 17 29 | 18 12 48 |
| | MAY . | 21 15 3 | 22 0 19 | | ○ | { 3 11 51 | 3 17 46 |
| | JUNE . | 20 3 47 | 20 8 37 | | MAY . | { 18 6 13 | 18 3 34 |
| | JULY . | 19 16 31 | 19 16 13 | | JUNE . | 16 18 57 | 16 18 59 |
| | AUG. . | 18 5 15 | 18 0 12 | | JULY . | 16 7 41 | 16 10 22 |
| | SEPT. . | 16 17 59 | 16 9 21 | | AUG. . | 14 20 25 | 15 1 11 |
| | OCT. . | 16 6 43 | 15 20 15 | | SEPT. . | 13 9 9 | 13 15 3 |
| | NOV. . | { 14 19 27 | 14 9 13 | | OCT. . | 12 21 53 | 13 3 56 |
| | ○ | { 29 13 49 | 30 0 1 | | NOV. . | 11 10 37 | 11 15 59 |
| | DEC. . | 14 8 11 | 14 0 14 | | DEC. . | 10 23 21 | 11 3 11 |
| 1069. B.A. 31 4 33 | JAN. . | 12 20 55 | 12 16 50 | 1066. E. 31 22 0 | JAN. . | 9 12 5 | 9 13 41 |
| | FEB. . | 11 9 39 | 11 10 17 | | FEB. . | 8 0 49 | 7 23 33 |
| | MAR. . | 11 22 23 | 12 3 30 | | MAR. . | { 9 13 33 | 9 9 16 |
| | APRIL | 10 11 7 | 10 19 27 | | ○ | { 24 7 55 | 24 21 9 |
| | MAY . | { 9 23 51 | 10 9 26 | | APRIL | 8 2 17 | 7 19 27 |
| | ○ | { 24 18 13 | 24 9 4 | | MAY . | 7 15 1 | 7 6 51 |
| | JUNE . | 8 12 35 | 8 21 17 | | JUNE . | 6 3 45 | 5 20 1 |
| | JULY . | 8 1 19 | 8 7 23 | | JULY . | 5 16 29 | 5 10 57 |
| | AUG. . | 6 14 3 | 6 16 32 | | AUG. . | 4 5 13 | 4 3 13 |
| | SEPT. . | 5 2 47 | 5 1 37 | | SEPT. . | { 2 17 57 | 2 20 0 |
| | OCT. . | 4 15 31 | 4 11 16 | | ○ | { 17 12 19 | 17 1 24 |
| | NOV. . | { 3 4 15 | 2 21 56 | | OCT. . | { 2 6 41 | 2 12 23 |
| | ○ | { 17 22 37 | 18 5 45 | | NOV. . | { 31 19 25 | { 1 3 41 |
| | DEC. . | 2 16 59 | { 2 9 45 | | DEC. . | 30 8 9 | { 30 17 24 |
| | | | { 31 22 45 | | | 29 20 53 | 30 5 25 |
| 1068. G. 31 10 22 | JAN. . | { 1 5 43 | 30 12 57 | 1065. D.C. 31 3 48 | JAN. . | 23 9 37 | 23 15 45 |
| | FEB. . | | ... | | FEB. . | 26 22 21 | 27 0 44 |
| | MAR. . | { 1 7 12 | 1 4 10 | | ○ | { 12 16 43 | 13 0 58 |
| | APRIL | { 30 19 56 | 30 19 57 | | MAR. . | { 27 11 6 | 27 8 59 |
| | ○ | { 14 3 2 | 14 0 29 | | APRIL | 25 23 50 | 25 17 16 |
| | MAY . | { 28 21 24 | 29 2 47 | | MAY . | 25 12 34 | 25 2 36 |
| | JUNE . | 27 10 8 | 27 16 35 | | JUNE . | 24 1 18 | 23 13 57 |
| | JULY . | 26 22 52 | 27 5 0 | | JULY . | 23 14 2 | 23 3 47 |
| | AUG. . | 25 11 36 | 25 16 18 | | AUG. . | 22 2 46 | 21 20 3 |
| | SEPT. . | 24 0 20 | 24 3 3 | | ○ | { 5 21 8 | 5 17 11 |
| | OCT. . | 23 13 4 | 23 13 42 | | SEPT. . | { 20 15 30 | 20 13 58 |
| | ○ | { 7 7 26 | 7 5 31 | | OCT. . | 20 4 14 | 20 8 20 |
| | NOV. . | 22 1 43 | 22 0 29 | | NOV. . | 18 16 58 | 19 1 10 |
| | DEC. . | 21 14 32 | 21 11 27 | | DEC. . | 18 5 42 | 18 17 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1064. B. March. d. h. m. 31 9 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1061. F.E. March. d. h. m. 31 3 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 18 26 | 17 6 30 | | JAN. . | 14 9 36 | 14 11 13 |
| | FEB. . | 15 7 10 | 15 17 8 | | FEB. . | 12 22 20 | 13 5 28 |
| | ○ | { 2 1 32 | 2 1 4 | | MAR. . | 13 11 4 | 13 21 56 |
| | MAR. . | { 16 19 54 | 17 1 46 | | APRIL | 11 23 48 | 12 11 51 |
| | APRIL | 15 8 38 | 15 9 9 | | MAY . | 11 12 32 | 11 23 7 |
| | MAY . | 14 21 22 | 14 16 14 | | JUNE . | { 10 1 16 | 10 8 14 |
| | JUNE . | 13 10 6 | 13 0 6 | | ○ | { 24 19 38 | 24 9 50 |
| | JULY . | 12 22 50 | 12 9 52 | | JULY . | 9 14 0 | 9 16 18 |
| | AUG. . | { 11 11 34 | 10 22 20 | | AUG. . | 8 2 44 | 8 0 4 |
| | ○ | { 26 5 56 | 26 9 0 | | SEPT. . | 6 15 28 | 6 8 44 |
| | SEPT. . | 10 0 18 | 9 13 50 | | OCT. . | 6 4 12 | 5 18 50 |
| | OCT. . | 9 13 2 | 9 7 51 | | NOV. . | 4 16 56 | 4 6 48 |
| | NOV. . | 8 1 46 | 8 3 11 | | DEC. . | { 4 5 40 | 3 20 43 |
| | DEC. . | 7 14 30 | 7 22 14 | | ○ | { 19 0 2 | 19 11 7 |
| 1063. A. 31 15 26 | JAN. . | 6 3 14 | 6 15 25 | 1060. D. 31 8 53 | JAN. . | 2 18 24 | 2 12 24 |
| | FEB. . | 4 15 58 | 5 5 49 | | FEB. . | 1 7 8 | 1 5 17 |
| | MAR. . | 6 4 43 | 6 17 16 | | MAR. . | 2 19 53 | 2 22 31 |
| | APRIL | 4 17 27 | 5 2 8 | | APRIL | { 1 8 37 | 1 15 3 |
| | MAY . | 4 6 11 | 4 9 22 | | ○ | { 30 21 21 | { 1 6 3 |
| | JUNE . | 2 18 55 | 2 16 0 | | MAY . | 30 10 5 | { 30 19 3 |
| | JULY . | { 2 7 39 | 1 23 7 | | ○ | { 14 4 27 | 13 17 19 |
| | AUG. . | { 31 20 23 | 31 7 51 | | JUNE . | { 28 22 49 | 29 6 6 |
| | SEPT. . | 30 9 7 | 29 19 6 | | JULY . | 28 11 33 | 28 15 51 |
| | OCT. . | 23 21 51 | 23 9 23 | | AUG. . | 27 0 17 | 27 1 6 |
| | NOV. . | 23 10 35 | 23 2 33 | | SEPT. . | 25 13 1 | 25 10 37 |
| | DEC. . | 26 23 19 | 26 21 39 | | OCT. . | 25 1 45 | 24 20 53 |
| | ○ | 26 12 3 | 26 17 8 | | NOV. . | 23 14 29 | 23 8 7 |
| 1062. G. 31 21 15 | ○ | { 10 6 25 | 10 5 20 | 1059. C. 31 14 41 | DEC. . | 23 3 13 | 22 20 25 |
| | JAN. . | { 25 0 47 | 25 11 20 | | JAN. . | 21 15 57 | 21 9 46 |
| | FEB. . | 23 13 31 | 24 3 0 | | FEB. . | 20 4 41 | 20 0 11 |
| | MAR. . | 25 2 16 | 25 15 36 | | MAR. . | 21 17 26 | 21 15 29 |
| | APRIL | 23 15 0 | 24 1 23 | | APRIL | 20 6 10 | 20 7 11 |
| | MAY . | 23 3 44 | 23 9 12 | | MAY . | 19 18 54 | 19 22 39 |
| | JUNE . | 21 16 28 | 21 16 7 | | JUNE . | 18 7 38 | 18 13 13 |
| | ○ | { 6 10 50 | 6 8 32 | | JULY . | 17 20 22 | 18 2 32 |
| | JULY . | { 21 5 12 | 20 23 17 | | AUG. . | 16 9 6 | 16 14 37 |
| | AUG. . | 19 17 56 | 19 7 33 | | SEPT. . | 14 21 50 | 15 1 51 |
| | SEPT. . | 18 6 40 | 17 18 4 | | OCT. . | 14 10 34 | 14 12 44 |
| | OCT. . | 17 19 24 | 17 7 4 | | NOV. . | 12 23 18 | 12 23 32 |
| | NOV. . | 16 8 8 | 15 22 45 | | DEC. . | 12 12 2 | 12 10 23 |
| | DEC. . | { 15 20 52 | 15 16 30 | | | | |
| | ○ | { 30 15 14 | 30 21 18 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1058. E. March. <i>d. h. m.</i> 81 20 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1055. E. March. <i>d. h. m.</i> 81 18 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 0 46 | 10 21 21 | | JAN. . | 7 15 56 | 8 4 30 |
| | FEB. . | 9 13 30 | 9 8 33 | | FEB. . | { 6 4 40 | 6 16 15 |
| | MAR. . | 11 2 14 | 10 20 28 | | ○ | { 20 23 2 | 20 20 30 |
| | APRIL . | { 9 14 58 | 9 9 15 | | MAR. . | 7 17 24 | 8 1 40 |
| | ○ | { 21 9 20 | 24 17 46 | | APRIL . | 6 6 8 | 6 9 25 |
| | MAY . | 9 8 42 | 8 23 20 | | MAY . | 5 18 52 | 5 16 23 |
| | JUNE . | 7 16 26 | 7 14 27 | | JUNE . | 4 7 36 | 3 23 40 |
| | JULY . | 7 5 10 | 7 6 2 | | JULY . | 3 20 20 | 3 8 20 |
| | AUG. . | 5 17 54 | 5 21 24 | | | { 2 9 4 | 1 19 24 |
| | SEPT. . | 4 6 38 | 4 12 4 | | AUG. ○ | { 17 3 26 | 17 7 55 |
| | OCT. . | { 3 19 22 | 4 1 45 | | ○ | { 31 21 48 | 31 9 27 |
| | ○ | { 18 18 44 | 18 1 52 | | SEPT. . | 30 10 32 | 30 2 26 |
| | NOV. . | 2 8 6 | 2 11 24 | | OCT. . | 29 23 16 | 29 21 24 |
| | DEC. . | { 1 20 50 | 2 2 7 | | NOV. . | 28 12 0 | 28 16 53 |
| | | { 31 9 34 | 31 12 55 | | DEC. . | 28 0 44 | 28 11 9 |
| 1057. A.D. 81 2 19 | JAN. . | 29 22 18 | 29 22 54 | 1054. D. 81 19 46 | JAN. . | 26 13 28 | 27 3 0 |
| | FEB. . | 28 11 2 | 28 8 24 | | ○ | { 10 7 50 | 10 2 10 |
| | MAR. . | 28 28 47 | 28 17 59 | | FEB. . | { 25 2 12 | 25 15 49 |
| | ○ | { 12 18 9 | 18 6 39 | | MAR. . | 26 14 57 | 27 1 48 |
| | APRIL . | { 27 12 31 | 27 4 28 | | APRIL . | 25 3 41 | 25 9 40 |
| | MAY . | 27 1 15 | 26 16 33 | | MAY . | 24 16 25 | 24 16 24 |
| | JUNE . | 25 13 59 | 25 6 34 | | JUNE . | 23 5 9 | 22 23 11 |
| | JULY . | 25 2 43 | 24 22 21 | | JULY . | 22 17 53 | 22 7 2 |
| | AUG. . | 23 15 27 | 23 15 11 | | ○ | { 6 12 15 | 6 17 24 |
| | SEPT. . | 22 4 11 | 22 8 9 | | AUG. . | { 21 6 37 | 20 17 2 |
| | ○ | { 6 22 33 | 6 11 17 | | SEPT. . | 19 19 21 | 19 5 50 |
| | OCT. . | { 21 16 55 | 22 0 21 | | OCT. . | 19 8 5 | 18 21 40 |
| | NOV. . | 20 5 39 | 20 15 4 | | NOV. . | 17 20 49 | 17 15 58 |
| | DEC. . | 19 18 28 | 20 4 1 | | DEC. . | 17 9 33 | 17 11 25 |
| 1056. F. 81 8 8 | JAN. . | 18 7 7 | 18 15 5 | 1053. C.B. 81 1 34 | JAN. . | { 15 22 17 | 16 6 21 |
| | FEB. . | 16 19 51 | 17 0 32 | | ○ | { 30 16 39 | 30 14 45 |
| | MAR. . | 18 8 36 | 18 8 52 | | FEB. . | 14 11 1 | 14 23 18 |
| | APRIL . | 16 21 20 | 16 16 48 | | MAR. . | 14 23 45 | 15 13 22 |
| | MAY . | 16 10 4 | 16 1 19 | | APRIL . | 13 12 29 | 14 0 28 |
| | JUNE . | 14 22 48 | 14 11 28 | | MAY . | 13 1 13 | 13 9 8 |
| | JULY . | 14 11 32 | 14 0 1 | | JUNE . | 11 13 57 | 11 16 25 |
| | AUG. . | 13 0 16 | 12 15 11 | | JULY . | { 11 2 41 | 10 23 26 |
| | SEPT. . | 11 13 0 | 11 8 33 | | ○ | { 25 21 3 | 25 19 56 |
| | OCT. . | 11 1 44 | 11 8 5 | | AUG. . | 9 15 25 | 9 7 12 |
| | NOV. . | 9 14 28 | 9 21 21 | | SEPT. . | 8 4 9 | 7 14 39 |
| | DEC. . | 9 3 12 | 9 14 7 | | OCT. . | 7 16 53 | 7 4 25 |
| | | | | | NOV. . | 6 5 37 | 5 18 47 |
| | | | | | DEC. . | 5 18 21 | 5 11 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|------------|------------------------------------|------------------------------------|
| B.C. 1052. A. March. d. h. m. 31 7 23 | JAN. . | d. h. m. 4 7 5 | d. h. m. 4 5 43 | B.C. 1049. E.D. March. d. h. m. 31 0 50 | JAN. . | d. h. m. 1 22 16 | d. h. m. 1 20 15 |
| | FEB. . | 2 19 49 | 3 0 11 | | { 31 11 0 | 31 7 4 | |
| | MAR. . | 4 8 34 | 4 17 33 | | FEB. . | 29 23 44 | 29 18 14 |
| | APRIL | 2 21 13 | 3 8 43 | | MAR. . | 30 12 28 | 30 6 15 |
| | MAY . | { 2 10 2 | 2 21 17 | | APRIL | 29 1 12 | 28 19 30 |
| | JUNE . | { 31 22 46 | { 1 7 23 | | ○ | { 13 19 34 | 14 1 10 |
| | JULY . | 30 11 30 | { 30 16 2 | | MAY . | { 28 13 56 | 28 10 2 |
| | AUG. . | 30 0 14 | 30 0 0 | | JUNE . | 27 2 40 | 27 1 30 |
| | SEPT. . | 28 12 58 | 28 8 22 | | JULY . | 26 15 24 | 26 17 14 |
| | OCT. . | 27 1 42 | 26 17 51 | | AUG. . | 25 4 8 | 25 8 35 |
| | NOV. . | 26 14 26 | 26 4 56 | | SEPT. . | 23 16 52 | 23 23 4 |
| | ○ | 25 3 10 | 24 17 51 | | OCT. . | 23 5 36 | 23 12 31 |
| | DEC. . | { 9 21 32 | 10 8 35 | | NOV. . | 21 18 20 | 22 0 50 |
| | | { 24 15 54 | 24 8 31 | | DEC. . | 21 7 4 | 21 12 5 |
| 1051. G. 31 13 12 | JAN. . | 23 4 33 | 23 0 33 | 1048. C. 31 6 39 | JAN. . | 19 19 43 | 19 22 19 |
| | FEB. . | 21 17 22 | 21 17 33 | | FEB. . | 18 8 32 | 18 7 47 |
| | MAR. . | 23 6 7 | 23 10 21 | | MAR. . | 19 21 17 | 19 16 59 |
| | APRIL | 21 18 51 | 22 2 8 | | ○ | { 3 15 39 | 4 4 19 |
| | MAY . | 21 7 35 | 21 16 10 | | APRIL | { 18 10 1 | 18 2 40 |
| | ○ | { 5 0 57 | 4 16 17 | | MAY . | 17 22 45 | 17 13 41 |
| | JUNE . | { 19 20 19 | 20 4 13 | | JUNE . | 16 11 29 | 16 2 39 |
| | JULY . | 19 9 3 | 19 14 50 | | JULY . | 16 0 13 | 15 17 38 |
| | AUG. . | 17 21 47 | 18 0 29 | | AUG. . | 14 12 57 | 14 10 13 |
| | SEPT. . | 16 10 31 | 16 10 2 | | SEPT. . | { 13 1 41 | 13 3 29 |
| | OCT. . | 15 23 15 | 15 20 1 | | ○ | { 27 20 3 | 27 9 52 |
| | NOV. . | { 14 11 59 | 14 6 50 | | OCT. . | 12 14 25 | 12 20 27 |
| | ○ | { 29 6 21 | 29 13 54 | | NOV. . | 11 3 9 | 11 12 11 |
| | DEC. . | 14 0 43 | 13 18 31 | | DEC. . | 10 15 53 | 11 2 8 |
| 1050. F. 31 19 1 | JAN. . | 12 13 27 | 12 7 8 | 1047. B. 31 12 23 | JAN. . | 9 4 37 | 9 14 6 |
| | FEB. . | 11 2 11 | 10 20 45 | | FEB. . | 7 17 21 | 8 0 11 |
| | MAR. . | 12 14 55 | 12 11 19 | | MAR. . | { 9 6 5 | 9 8 43 |
| | APRIL | 11 3 39 | 11 2 39 | | ○ | { 24 0 27 | 24 7 51 |
| | MAY . | { 10 16 23 | 10 18 3 | | APRIL | 7 18 49 | 7 16 36 |
| | ○ | { 25 10 45 | 25 7 53 | | MAY . | 7 7 33 | 7 0 33 |
| | JUNE . | 9 5 7 | 9 9 20 | | JUNE . | 5 20 17 | 5 9 39 |
| | JULY . | 8 17 51 | 8 23 28 | | JULY . | 5 9 1 | 4 20 53 |
| | AUG. . | 7 6 35 | 7 12 24 | | AUG. . | 3 21 45 | 3 10 47 |
| | SEPT. . | 5 19 19 | 6 0 19 | | SEPT. . | { 2 10 29 | 2 3 17 |
| | OCT. . | 5 8 3 | 5 11 34 | | ○ | { 17 4 51 | 17 1 37 |
| | NOV. . | { 3 20 47 | 3 22 34 | | OCT. . | { 1 23 13 | 1 21 34 |
| | ○ | { 18 15 9 | 13 13 30 | | { 31 11 57 | 31 16 21 | |
| | DEC. . | 3 9 31 | 3 9 26 | | NOV. . | 30 0 41 | 30 10 7 |
| | | | | | DEC. . | 29 13 25 | 30 1 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 1046. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1043. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 28 2 9 | 28 14 50 | D. | ○ | 9 22 57 | 10 6 2 |
| March. | FEB. . | 26 14 53 | 27 1 18 | March. | JAN. . | 24 17 19 | 24 18 48 |
| <i>d. h. m.</i> | ○ | 18 9 15 | 18 8 6 | <i>d. h. m.</i> | FEB. . | 23 6 3 | 23 12 41 |
| 81 18 16 | MAR. . | 28 8 38 | 28 9 34 | 81 11 43 | MAR. . | 24 18 48 | 25 4 57 |
| | APRIL | 26 16 22 | 26 16 42 | | APRIL | 23 7 32 | 23 18 47 |
| | MAY . | 26 5 6 | 25 23 36 | | MAY . | 22 20 16 | 23 6 9 |
| | JUNE . | 24 17 50 | 24 7 24 | | JUNE . | 21 9 0 | 21 15 32 |
| | JULY . | 24 6 34 | 23 17 12 | | ○ | 6 3 22 | 5 16 37 |
| | AUG. . | 22 19 18 | 22 5 47 | | JULY . | 20 21 44 | 20 23 52 |
| | ○ | 6 13 40 | 6 17 9 | | AUG. . | 19 10 28 | 19 8 8 |
| | SEPT. . | 21 8 2 | 20 21 28 | | SEPT. . | 17 23 12 | 17 17 9 |
| | OCT. . | 20 20 46 | 20 15 41 | | OCT. . | 17 11 56 | 17 3 31 |
| | NOV. . | 19 9 30 | 19 11 11 | | NOV. . | 16 0 40 | 15 15 32 |
| | DEC. . | 18 22 14 | 19 6 17 | | DEC. . | 15 13 24 | 15 5 13 |
| | | | | | ○ | 30 7 46 | 30 19 40 |
| 1045. | JAN. . | 17 10 58 | 17 23 27 | 1042. | JAN. . | 14 2 8 | 13 20 27 |
| G.F. | FEB. . | 15 23 42 | 16 13 48 | C. | FEB. . | 12 14 52 | 12 12 46 |
| 81 0 5 | MAR. . | 16 12 27 | 17 0 59 | 81 17 32 | MAR. . | 14 3 37 | 14 5 31 |
| | APRIL | 15 1 11 | 15 9 42 | | APRIL | 12 16 21 | 12 21 45 |
| | MAY . | 14 18 55 | 14 16 49 | | MAY . | 12 5 5 | 12 12 41 |
| | JUNE . | 13 2 39 | 12 23 27 | | JUNE . | 10 17 49 | 11 1 53 |
| | JULY . | 12 15 23 | 12 6 42 | | ○ | 25 12 11 | 25 0 31 |
| | AUG. . | 11 4 7 | 10 15 36 | | JULY . | 10 6 33 | 10 13 21 |
| | SEPT. . | 9 16 51 | 9 8 1 | | AUG. . | 8 19 17 | 8 23 36 |
| | OCT. . | 9 5 35 | 8 17 26 | | SEPT. . | 7 8 1 | 7 9 21 |
| | NOV. . | 7 18 19 | 7 10 37 | | OCT. . | 6 20 45 | 6 19 17 |
| | DEC. . | 7 7 8 | 7 5 38 | | NOV. . | 5 9 29 | 5 5 47 |
| | | | | | DEC. . | 4 22 13 | 4 17 0 |
| 1044. | JAN. . | 5 19 47 | 6 0 56 | 1041. | JAN. . | 3 10 57 | 3 4 59 |
| E. | ○ | 20 14 9 | 20 18 57 | B.A. | FEB. . | 1 23 41 | 1 17 49 |
| 81 5 54 | FEB. . | 4 8 31 | 4 18 57 | 80 23 21 | MAR. . | 2 12 25 | 2 7 37 |
| | MAR. . | 5 21 15 | 6 10 25 | | APRIL | 1 1 9 | 31 22 21 |
| | APRIL | 4 9 59 | 4 22 55 | | | 30 13 53 | 30 13 42 |
| | MAY . | 3 22 43 | 4 8 40 | | MAY . | 30 2 37 | 30 5 6 |
| | JUNE . | 2 11 27 | 2 16 34 | | JUNE . | 28 15 21 | 28 19 54 |
| | | 2 0 11 | 1 23 40 | | JULY . | 28 4 5 | 28 9 42 |
| | JULY ○ | 16 18 33 | 16 15 11 | | AUG. . | 26 16 49 | 26 22 22 |
| | | 31 12 55 | 31 7 5 | | SEPT. . | 25 5 33 | 25 10 12 |
| | AUG. . | 30 1 39 | 29 15 45 | | OCT. . | 24 18 17 | 24 21 30 |
| | SEPT. . | 28 14 23 | 28 2 23 | | NOV. . | 23 7 1 | 23 8 30 |
| | OCT. . | 23 8 7 | 27 15 30 | | DEC. . | 22 19 45 | 22 19 17 |
| | NOV. . | 23 15 51 | 26 7 2 | | | | |
| | DEC. . | 23 4 35 | 26 0 30 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1040. G. March. d. h. m. 31 5 9 | | d. h. m. | d. h. m. | B.C. 1037. D.C. March. d. h. m. 30 22 35 | | d. h. m. | d. h. m. |
| | JAN. . | 21 8 29 | 21 5 53 | | JAN. . | 18 23 39 | 19 12 48 |
| | FEB. . | 19 21 13 | 19 16 33 | | FEB. . | 17 12 23 | 18 0 24 |
| | MAR. . | 21 9 58 | 21 3 48 | | ○ | { 3 6 45 | 3 3 44 |
| | APRIL | 19 22 42 | 19 16 9 | | MAR. . | { 18 1 8 | 18 9 33 |
| | ○ | { 4 17 4 | 5 1 10 | | APRIL | 16 13 52 | 16 17 3 |
| | MAY . | { 19 11 26 | 19 5 52 | | MAY . | 16 2 36 | 15 23 50 |
| | JUNE . | 18 0 10 | 17 20 56 | | JUNE . | 14 15 20 | 14 7 0 |
| | JULY . | 17 12 54 | 17 12 44 | | JULY . | 14 4 4 | 13 15 41 |
| | AUG. . | 16 1 38 | 16 4 37 | | AUG. . | { 12 16 48 | 12 2 52 |
| | SEPT. . | 14 14 22 | 14 19 53 | | ○ | { 27 11 10 | 27 15 50 |
| | OCT. . | { 14 3 6 | 14 10 8 | | SEPT. . | 11 5 32 | 10 17 5 |
| | ○ | { 28 21 28 | 28 10 9 | | OCT. . | 10 18 16 | 10 10 13 |
| | NOV. . | 12 15 50 | 12 23 12 | | NOV. . | 9 7 0 | 9 5 20 |
| | DEC. . | 12 4 34 | 12 11 2 | | DEC. . | 8 19 44 | 9 0 52 |
| 1039. F. 31 10 58 | JAN. . | 10 17 18 | 10 21 41 | 1036. B. 31 4 24 | JAN. . | 7 3 28 | 7 19 10 |
| | FEB. . | 9 6 2 | 9 7 18 | | FEB. . | { 5 21 12 | 6 10 53 |
| | MAR. . | 10 18 46 | 10 16 18 | | ○ | { 20 15 34 | 20 10 1 |
| | APRIL | { 9 7 30 | 9 1 23 | | MAR. . | 7 9 56 | 7 23 33 |
| | ○ | { 24 1 52 | 24 13 44 | | APRIL | 5 22 40 | 6 9 21 |
| | MAY . | 8 20 14 | 8 11 26 | | MAY . | 5 11 24 | 5 17 6 |
| | JUNE . | 7 8 58 | 6 23 16 | | JUNE . | 4 0 8 | 3 23 51 |
| | JULY . | 6 21 42 | 6 13 14 | | JULY . | 3 12 52 | 3 6 42 |
| | AUG. . | 5 10 26 | 5 5 13 | | | { 2 1 36 | 1 14 45 |
| | SEPT. . | 3 23 10 | 3 22 29 | | AUG. ○ | { 16 19 58 | 17 0 44 |
| | OCT. . | { 3 11 54 | 3 15 59 | | | { 31 14 20 | 31 0 55 |
| | ○ | { 18 6 16 | 17 19 51 | | SEPT. . | 30 3 4 | 29 13 53 |
| | NOV. . | 2 0 38 | 2 8 39 | | OCT. . | 29 15 48 | 29 5 47 |
| | DEC. . | { 1 13 22 | 1 23 42 | | NOV. . | 28 4 32 | 27 23 59 |
| | | { 31 2 6 | 31 12 41 | | DEC. . | 27 17 16 | 27 19 15 |
| 1038. E. 31 16 47 | JAN. . | 29 14 50 | 29 23 34 | 1035. A. 31 10 13 | JAN. . | 26 6 0 | 26 13 59 |
| | FEB. . | 28 8 35 | 28 8 42 | | ○ | { 10 0 22 | 9 23 4 |
| | MAR. . | 29 16 19 | 29 16 37 | | FEB. . | { 24 18 44 | 25 6 44 |
| | APRIL | 28 5 3 | 28 0 12 | | MAR. . | 26 7 29 | 26 20 40 |
| | MAY . | 27 17 47 | 27 8 28 | | APRIL | 24 20 13 | 25 7 42 |
| | JUNE . | 26 6 31 | 25 18 28 | | MAY . | 24 8 57 | 24 16 27 |
| | JULY . | 25 19 15 | 25 7 1 | | JUNE . | 22 21 41 | 22 23 54 |
| | AUG. . | 24 7 59 | 23 22 22 | | JULY . | 22 10 25 | 22 7 10 |
| | SEPT. . | 22 20 43 | 22 16 3 | | ○ | { 6 4 47 | 6 2 50 |
| | OCT. . | 22 9 27 | 22 10 55 | | AUG. . | { 20 23 9 | 20 15 15 |
| | NOV. . | 20 22 11 | 21 5 31 | | SEPT. . | 19 11 53 | 19 0 58 |
| | DEC. . | 20 10 55 | 20 22 27 | | OCT. . | 19 0 37 | 18 12 52 |
| | | | | | NOV. . | 17 13 21 | 17 3 12 |
| | | | | | DEC. . | 17 2 5 | 16 19 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1034. g. March. d. h. m. 31 16 2 | | d. h. m. | d. h. m. | B.C. 1031. c. March. d. h. m. 31 9 29 | | d. h. m. | d. h. m. |
| | JAN. . | 15 14 49 | 15 13 29 | | JAN. . | 12 5 59 | 12 4 55 |
| | FEB. . | 14 3 33 | 14 7 32 | | FEB. . | 10 18 43 | 10 15 16 |
| | MAR. . | 15 16 18 | 16 0 35 | | MAR. . | 12 7 28 | 12 1 53 |
| | APRIL . | 14 5 2 | 14 15 37 | | APRIL . | 10 20 12 | 10 13 21 |
| | MAY . | 13 17 46 | 14 4 13 | | MAY . | 10 8 56 | 10 2 10 |
| | JUNE . | 12 6 30 | 12 14 37 | | ○ | 25 3 18 | 25 8 33 |
| | JULY . | 11 19 14 | 11 23 32 | | JUNE . | 8 21 40 | 8 16 31 |
| | AUG. . | 10 7 58 | 10 7 55 | | JULY . | 8 10 24 | 8 8 5 |
| | SEPT. . | 8 20 42 | 8 16 41 | | AUG. . | 6 23 8 | 7 0 14 |
| | OCT. . | 8 9 26 | 8 2 29 | | SEPT. . | 5 11 52 | 5 16 9 |
| | NOV. . | 6 22 10 | 6 13 43 | | OCT. . | 5 0 36 | 5 7 15 |
| | DEC. . | 6 10 54 | 6 2 29 | | NOV. . | 3 13 20 | 3 21 8 |
| | ○ | 21 5 16 | 21 17 6 | | DEC. . | 3 2 4 | 3 9 43 |
| 1033. F.E. 30 21 51 | JAN. . | 4 23 38 | 4 16 47 | 1030. B. 31 15 17 | JAN. . | 1 14 48 31 3 32 | 1 20 55 31 6 50 |
| | FEB. . | 3 12 22 | 3 8 21 | | FEB. . | ... | ... |
| | MAR. . | 4 1 6 | 4 0 42 | | MAR. . | 1 16 16 31 5 0 | 1 15 52 31 0 35 |
| | APRIL . | 2 13 50 | 2 17 5 | | APRIL . | 29 17 44 | 29 9 49 |
| | MAY . | 2 2 34 31 15 18 | 2 8 41 31 22 51 | | MAY . | 29 6 28 | 28 20 31 |
| | ○ | 15 9 40 | 14 23 30 | | JUNE . | 27 19 12 | 27 9 20 |
| | JUNE . | 30 4 2 | 30 11 18 | | JULY . | 27 7 56 | 27 0 27 |
| | JULY . | 29 16 46 | 29 22 20 | | AUG. . | 25 20 40 | 25 17 20 |
| | AUG. . | 28 5 30 | 28 8 31 | | SEPT. . | 24 9 24 | 24 11 5 |
| | SEPT. . | 26 18 14 | 26 18 32 | | ○ | 9 3 46 | 8 18 26 |
| | OCT. . | 26 6 53 | 26 4 53 | | OCT. . | 23 22 8 | 24 4 32 |
| | NOV. . | 24 19 42 | 24 15 46 | | NOV. . | 22 10 52 | 22 20 40 |
| | ○ | 9 14 4 | 9 22 0 | | DEC. . | 21 23 36 | 22 10 46 |
| | DEC. . | 24 8 23 | 24 3 15 | | | | |
| 1032. D. 31 3 40 | JAN. . | 22 21 10 | 22 15 24 | 1029. A.G. 30 21 26 | JAN. . | 20 12 50 | 20 22 39 |
| | FEB. . | 21 9 54 | 21 4 24 | | FEB. . | 19 1 4 | 19 8 26 |
| | MAR. . | 22 22 39 | 22 18 24 | | MAR. . | 19 13 49 | 19 16 42 |
| | APRIL . | 21 11 23 | 21 9 16 | | ○ | 3 8 11 | 3 14 39 |
| | MAY . | 21 0 7 | 21 0 39 | | APRIL . | 13 2 23 | 13 0 10 |
| | ○ | 4 18 29 | 4 15 21 | | MAY . | 17 15 17 | 17 9 49 |
| | JUNE . | 19 12 51 | 19 15 54 | | JUNE . | 16 4 1 | 15 16 45 |
| | JULY . | 19 1 35 | 19 6 25 | | JULY . | 15 16 45 | 15 3 57 |
| | AUG. . | 17 14 19 | 17 19 56 | | AUG. . | 14 5 29 | 13 17 53 |
| | SEPT. . | 16 3 3 | 16 8 27 | | SEPT. . | 12 18 13 | 12 10 42 |
| | OCT. . | 15 15 47 | 15 20 13 | | ○ | 27 12 35 | 27 10 10 |
| | NOV. . | 14 4 31 | 14 7 31 | | OCT. . | 12 6 57 | 12 5 18 |
| | ○ | 23 22 53 | 23 21 27 | | NOV. . | 10 19 41 | 11 0 23 |
| | DEC. . | 13 17 15 | 13 18 23 | | DEC. . | 10 8 25 | 10 18 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1028. F. March. d. h. m. 31 2 55 | | d. h. m. | d. h. m. | B.C. 1025. c.b. March. d. h. m. 30 20 22 | | d. h. m. | d. h. m. |
| | JAN. . | 8 21 9 | 9 10 6 | | JAN. . | { 6 12 19 | 6 8 25 |
| | FEB. . | 7 9 53 | 7 23 0 | | ○ | { 21 6 41 | 21 14 40 |
| | MAR. . | { 8 22 38 | 9 9 11 | | FEB. . | 5 1 3 | 5 2 18 |
| | ○ | { 23 17 0 | 23 15 4 | | MAR. . | 5 13 47 | 5 19 45 |
| | APRIL | 7 11 22 | 7 17 17 | | APRIL | 4 2 31 | 4 11 48 |
| | MAY . | 7 0 6 | 7 0 12 | | MAY . | 3 15 15 | 4 1 37 |
| | JUNE . | 5 12 50 | 5 7 1 | | JUNE . | 2 3 59 | 2 13 9 |
| | JULY . | 5 1 34 | 4 14 49 | | | { 1 16 43 | 1 22 52 |
| | AUG. . | 3 14 18 | 3 0 40 | | JULY ○ | { 16 11 5 | 15 23 31 |
| | SEPT. . | { 2 3 2 | 1 13 15 | | | { 31 5 27 | 31 7 36 |
| | ○ | { 16 21 24 | 17 1 25 | | AUG. . | 29 18 11 | 29 16 18 |
| | OCT. . | { 1 15 46 | 1 5 14 | | SEPT. . | 28 6 55 | 28 1 43 |
| | | { 31 4 30 | 30 23 34 | | OCT. . | 27 19 39 | 27 12 19 |
| | NOV. . | 29 17 14 | 29 19 9 | | NOV. . | 26 8 23 | 26 0 16 |
| | DEC. . | 29 5 53 | 29 14 15 | | DEC. . | 25 21 7 | 25 13 39 |
| 1027. E. 31 8 44 | JAN. . | 27 18 42 | 28 7 19 | 1024. A. 31 2 10 | ○ | { 9 15 29 | 10 4 6 |
| | FEB. . | 26 7 26 | 26 21 28 | | JAN. . | { 24 9 51 | 24 4 22 |
| | MAR. . | 27 20 10 | 28 8 32 | | FEB. . | 22 22 35 | 22 20 7 |
| | APRIL | 26 8 54 | 26 17 9 | | MAR. . | 24 11 20 | 24 12 22 |
| | MAY . | 25 21 38 | 26 0 15 | | APRIL | 23 0 4 | 23 4 19 |
| | JUNE . | 24 10 22 | 24 6 58 | | MAY . | 22 12 43 | 22 19 16 |
| | JULY . | 23 23 6 | 23 14 21 | | JUNE . | 21 1 32 | 21 8 42 |
| | AUG. . | 22 11 50 | 21 23 28 | | ○ | { 5 19 54 | 5 7 45 |
| | SEPT. . | 21 0 34 | 20 11 5 | | JULY . | { 20 14 16 | 20 20 38 |
| | OCT. . | 20 13 18 | 20 1 35 | | AUG. . | 19 3 0 | 19 7 25 |
| | NOV. . | 19 2 2 | 18 18 44 | | SEPT. . | 17 15 44 | 17 17 33 |
| | DEC. . | 18 14 46 | 18 13 33 | | OCT. . | 17 4 23 | 17 4 3 |
| | | | | | NOV. . | 15 17 12 | 15 14 44 |
| | | | | | DEC. . | 15 5 56 | 15 1 51 |
| 1026. D. 31 14 33 | JAN. . | { 17 3 30 | 17 8 36 | 1023. G. 31 7 59 | JAN. . | 13 18 40 | 13 13 28 |
| | ○ | { 31 21 52 | 31 22 25 | | FEB. . | 12 7 24 | 12 1 44 |
| | FEB. . | 15 16 14 | 16 2 23 | | MAR. . | 13 20 9 | 13 14 56 |
| | MAR. . | 17 4 59 | 17 17 42 | | APRIL | 12 8 53 | 12 5 8 |
| | APRIL | 15 17 43 | 16 6 7 | | MAY . | 11 21 37 | 11 20 11 |
| | MAY . | 15 6 27 | 15 15 55 | | JUNE . | 10 10 21 | 10 11 34 |
| | JUNE . | 13 19 11 | 13 23 57 | | JULY . | 9 23 5 | 10 2 39 |
| | JULY . | { 13 7 55 | 13 7 19 | | AUG. . | 8 11 49 | 8 16 58 |
| | ○ | { 23 2 17 | 27 21 56 | | SEPT. . | 7 0 33 | 7 6 15 |
| | AUG. . | 11 20 39 | 11 15 2 | | OCT. . | 6 13 17 | 6 18 40 |
| | SEPT. . | 10 9 23 | 10 0 1 | | NOV. . | 5 2 1 | 5 6 22 |
| | OCT. . | 9 22 7 | 9 10 53 | | DEC. . | 4 14 45 | 4 17 29 |
| | NOV. . | 8 10 51 | 8 0 1 | | | | |
| | DEC. . | 7 23 35 | 7 15 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1022. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1019. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. March. <i>d. h. m.</i> 31 13 48 | JAN. . | 3 3 20 | 3 4 6 | B. March. <i>d. h. m.</i> 31 7 15 | JAN. . | 29 7 23 | 29 21 0 |
| | FEB. . | 1 16 13 | 1 14 17 | | FEB. . | 27 20 7 | 28 8 23 |
| | MAR. . | 3 4 57 | 3 0 26 | | MAR. . | 29 8 51 | 29 17 18 |
| | APRIL | 1 17 41 | 1 11 6 | | APRIL | 27 21 35 | 28 0 35 |
| | | 1 6 25 | 30 22 58 | | MAY . | 27 10 19 | 27 7 15 |
| | MAY ○ | 16 0 47 | 16 8 30 | | JUNE . | 25 23 3 | 25 14 24 |
| | | 30 19 9 | 30 12 25 | | JULY . | 25 11 47 | 24 23 10 |
| | JUNE . | 29 7 53 | 29 3 27 | | AUG. . | 24 0 31 | 23 10 28 |
| | JULY . | 28 20 37 | 28 19 33 | | ○ | 7 18 53 | 7 23 52 |
| | AUG. . | 27 9 21 | 27 11 54 | | SEPT. . | 22 13 15 | 22 0 50 |
| | SEPT. . | 25 22 5 | 26 3 46 | | OCT. . | 22 1 59 | 21 18 6 |
| | OCT. . | 25 10 49 | 25 18 34 | | NOV. . | 20 14 43 | 20 13 17 |
| | ○ | 9 5 11 | 8 18 30 | | DEC. . | 20 3 27 | 20 8 49 |
| | NOV. . | 23 23 33 | 24 7 53 | | | | |
| | DEC. . | 23 12 17 | 23 19 53 | 1018. | JAN. . | 18 16 11 | 19 3 1 |
| | | | | A. | FEB. . | 17 4 55 | 17 18 36 |
| 1021. | JAN. . | 22 1 1 | 22 6 18 | | ○ | 3 23 17 | 3 17 44 |
| E.D. | FEB. . | 20 13 45 | 20 15 32 | 31 13 3 | MAR. . | 18 17 40 | 19 7 7 |
| 30 19 37 | MAR. . | 21 2 30 | 21 0 6 | | APRIL | 17 6 24 | 17 16 50 |
| | APRIL | 19 15 14 | 19 8 45 | | MAY . | 16 19 8 | 17 0 32 |
| | ○ | 4 9 36 | 4 20 44 | | JUNE . | 15 7 52 | 15 7 21 |
| | MAY . | 19 3 53 | 18 18 26 | | JULY . | 14 20 36 | 14 14 20 |
| | JUNE . | 17 16 42 | 17 6 2 | | AUG. . | 13 9 20 | 12 22 36 |
| | JULY . | 17 5 26 | 16 20 3 | | ○ | 28 3 42 | 28 3 12 |
| | AUG. . | 15 18 10 | 15 12 14 | | SEPT. . | 11 22 4 | 11 9 0 |
| | SEPT. . | 14 6 54 | 14 5 54 | | OCT. . | 11 10 48 | 10 22 6 |
| | OCT. . | 13 19 38 | 13 23 53 | | NOV. . | 9 23 32 | 9 13 53 |
| | ○ | 28 14 0 | 23 4 35 | | DEC. . | 9 12 16 | 9 8 2 |
| | NOV. . | 12 8 22 | 12 16 59 | | | | |
| | DEC. . | 11 21 6 | 12 8 16 | 1017. | JAN. . | 8 1 0 | 8 3 2 |
| | | | | G.F. | FEB. . | 6 13 44 | 6 21 23 |
| 1020. | JAN. . | 10 9 50 | 10 21 14 | | ○ | 21 8 6 | 21 7 16 |
| C. | FEB. . | 8 22 34 | 9 7 55 | 30 13 52 | MAR. . | 7 2 29 | 7 14 1 |
| 31 1 26 | MAR. . | 10 11 19 | 10 16 44 | | APRIL | 5 15 13 | 6 3 49 |
| | APRIL | 9 0 3 | 9 0 19 | | MAY . | 5 3 57 | 5 14 51 |
| | MAY . | 8 12 47 | 8 7 36 | | JUNE . | 3 16 41 | 3 23 44 |
| | JUNE . | 7 1 31 | 6 15 40 | | JULY . | 3 5 25 | 3 7 25 |
| | JULY . | 6 14 15 | 6 1 35 | | | 1 18 9 | 1 15 0 |
| | AUG. . | 5 2 59 | 4 14 11 | | AUG. ○ | 16 12 31 | 16 9 51 |
| | SEPT. . | 3 15 43 | 3 5 43 | | | 31 6 53 | 30 23 26 |
| | OCT. . | 3 4 27 | 2 23 40 | | SEPT. . | 29 19 37 | 29 9 26 |
| | NOV. . | 1 17 11 | 1 18 50 | | OCT. . | 29 8 21 | 28 21 28 |
| | | 1 5 55 | 1 13 40 | | NOV. . | 27 21 5 | 27 11 40 |
| | DEC. . | 30 18 39 | 31 6 42 | | DEC. . | 27 9 49 | 27 3 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 1016. E. March. d. h. m. 31 0 41 | | d. h. m. | d. h. m. | B.C. 1013. B.A. March. d. h. m. 30 18 8 | | d. h. m. | d. h. m. |
| | JAN. . | 25 22 33 | 25 21 8 | | JAN. . | 23 13 43 | 23 13 30 |
| | FEB. . | 24 11 17 | 24 14 44 | | FEB. . | 22 2 27 | 21 23 23 |
| | MAR. . | 26 0 1 | 26 7 26 | | MAR. . | 22 15 11 | 22 9 25 |
| | APRIL | 24 12 45 | 24 22 23 | | APRIL | 21 3 55 | 20 20 22 |
| | MAY . | 24 1 29 | 24 11 6 | | MAY . | 20 16 39 | 20 8 49 |
| | JUNE . | 22 14 13 | 22 21 47 | | ○ | 4 11 1 | 4 15 55 |
| | JULY . | 22 2 57 | 22 7 5 | | JUNE . | 19 5 23 | 18 23 4 |
| | AUG. . | 20 15 41 | 20 15 57 | | JULY . | 18 18 7 | 18 14 46 |
| | SEPT. . | 19 4 25 | 19 1 8 | | AUG. . | 17 6 51 | 17 7 18 |
| | OCT. . | 18 17 9 | 18 11 15 | | SEPT. . | 15 19 35 | 15 23 43 |
| | NOV. . | 17 5 53 | 16 22 32 | | OCT. . | 15 8 19 | 15 15 28 |
| | DEC. . | 16 18 37 | 16 11 6 | | NOV. . | 13 21 3 | 14 5 47 |
| | ○ | 13 12 59 | ... | | DEC. . | 13 9 47 | 13 18 30 |
| 1015. D. | JAN. . | { ... | 1 1 30 | 1012. G. | JAN. . | 11 22 31 | 12 5 36 |
| | FEB. . | 15 7 21 | 15 0 57 | | FEB. . | 10 11 15 | 10 15 13 |
| | MAR. . | 13 20 5 | 13 15 55 | | MAR. . | 12 0 0 | 11 23 51 |
| | APRIL | 15 8 50 | 15 7 44 | | APRIL | 10 12 44 | 10 8 6 |
| | MAY . | 13 21 34 | 13 23 43 | | MAY . | 10 1 28 | 9 16 59 |
| | JUNE . | 13 10 18 | 13 15 13 | | JUNE . | 8 14 12 | 8 3 25 |
| | ○ | 11 23 2 | 12 5 32 | | JULY . | 8 2 56 | 7 16 10 |
| | JULY . | 26 17 24 | 26 6 49 | | AUG. . | 6 15 40 | 6 7 22 |
| | AUG. . | 11 11 46 | 11 18 23 | | SEPT. . | 5 4 24 | 5 0 36 |
| | SEPT. . | 10 0 30 | 10 5 56 | | OCT. . | 4 17 8 | 4 18 43 |
| | OCT. . | 8 13 14 | 8 16 41 | | ○ | 19 11 30 | 19 3 9 |
| | NOV. . | 8 1 53 | 8 3 11 | | NOV. . | 3 5 52 | 3 12 42 |
| | DEC. . | 6 14 42 | 6 13 49 | | DEC. . | 2 18 36 | 3 5 8 |
| | ○ | 6 3 26 | 6 0 43 | | | | |
| | ○ | 20 21 48 | 21 6 3 | | | | |
| 1014. C. | JAN. . | 4 16 10 | 4 11 55 | 1011. F. | JAN. . | 1 7 20 | 1 19 19 |
| | FEB. . | 3 4 54 | 2 23 35 | | FEB. . | 30 20 4 | 31 7 8 |
| | MAR. . | 4 17 39 | 4 12 0 | | ... | ... | ... |
| | APRIL | 3 6 23 | 3 1 23 | | MAR. . | 1 8 48 | 1 16 34 |
| | MAY . | 2 19 7 | 2 15 51 | | ○ | 30 21 32 | 31 0 29 |
| | JUNE ○ | 1 7 51 | 1 7 5 | | ○ | 14 15 54 | 14 21 17 |
| | JULY . | 16 2 13 | 15 22 49 | | APRIL | 29 10 16 | 29 7 39 |
| | AUG. . | 30 20 35 | 30 22 31 | | MAY . | 28 23 0 | 28 15 5 |
| | SEPT. . | 30 9 19 | 30 13 28 | | JUNE . | 27 11 44 | 26 23 55 |
| | OCT. . | 28 22 3 | 29 3 35 | | JULY . | 27 0 28 | 26 11 7 |
| | NOV. . | 27 10 47 | 27 16 42 | | AUG. . | 25 13 12 | 25 1 16 |
| | DEC. . | 26 23 31 | 27 4 57 | | SEPT. . | 24 1 56 | 23 18 13 |
| | ○ | 10 6 37 | 10 5 23 | | ○ | 8 20 18 | 8 18 51 |
| | ○ | 25 0 59 | 25 3 17 | | OCT. . | 23 14 40 | 23 13 6 |
| | DEC. . | 25 0 59 | 25 3 17 | | NOV. . | 22 3 24 | 22 8 25 |
| | | | | | DEC. . | 21 16 8 | 22 2 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 1010. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 1007. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. March. | JAN. . | 20 4 52 | 20 18 16 | A. March. | JAN. . | 16 20 2 | 16 16 16 |
| <i>d. h. m.</i> | FEB. . | 18 17 36 | 19 7 0 | <i>d. h. m.</i> | ○ | 31 14 24 | 31 23 6 |
| 31 11 34 | MAR. . | 20 6 21 | 20 16 59 | 31 5 0 | FEB. . | 15 8 46 | 15 9 37 |
| | ○ | 4 0 43 | 3 21 53 | | MAR. . | 16 21 31 | 17 2 42 |
| | APRIL | 18 19 5 | 19 0 52 | | APRIL | 15 10 15 | 15 18 32 |
| | MAY . | 18 7 49 | 18 7 39 | | MAY . | 14 22 59 | 15 8 23 |
| | JUNE . | 16 20 33 | 16 14 25 | | JUNE . | 13 11 43 | 13 20 10 |
| | JULY . | 16 9 17 | 15 22 17 | | JULY . | 13 0 27 | 13 6 16 |
| | AUG. . | 14 22 1 | 14 8 18 | | ○ | 27 18 49 | 27 6 34 |
| | SEPT. . | 13 10 45 | 12 21 11 | | AUG. . | 11 13 11 | 11 15 28 |
| | ○ | 28 5 7 | 28 9 48 | | SEPT. . | 10 1 55 | 10 0 39 |
| | OCT. . | 12 23 29 | 12 13 8 | | OCT. . | 9 14 39 | 9 10 25 |
| | NOV. . | 11 12 13 | 11 7 32 | | NOV. . | 8 3 23 | 7 21 1 |
| | DEC. . | 11 0 57 | 11 3 6 | | DEC. . | 7 16 7 | 7 9 3 |
| 1009. | JAN. . | 9 13 41 | 9 22 5 | 1006. | JAN. . | 6 4 51 | 5 22 4 |
| D.C. | FEB. . | 8 2 25 | 8 15 2 | G. | ○ | 20 23 13 | 21 12 26 |
| 30 17 23 | MAR. . | 8 15 10 | 9 5 2 | 31 10 49 | FEB. . | 4 17 35 | 4 12 13 |
| | APRIL | 7 3 54 | 7 15 59 | | MAR. . | 6 6 20 | 6 3 22 |
| | MAY . | 6 16 38 | 7 0 34 | | APRIL | 4 19 4 | 4 19 6 |
| | JUNE . | 5 5 22 | 5 7 41 | | MAY . | 4 7 48 | 4 10 49 |
| | JULY . | 4 18 6 | 4 14 33 | | JUNE . | 2 20 32 | 3 1 50 |
| | AUG. . | 3 6 50 | 2 22 10 | | | 2 9 16 | 2 15 35 |
| | SEPT. . | 1 19 34 | 1 7 33 | | JULY ○ | 17 3 33 | 16 15 8 |
| | ○ | 1 8 18 | 30 19 20 | | | 31 22 0 | 1 4 1 |
| | OCT. . | 30 21 2 | 30 9 53 | | AUG. . | 30 10 44 | 30 15 22 |
| | NOV. . | 29 9 46 | 29 2 53 | | SEPT. . | 28 23 23 | 29 2 12 |
| | DEC. . | 28 22 30 | 28 21 27 | | OCT. . | 28 12 12 | 28 12 55 |
| | | | | | NOV. . | 27 0 56 | 26 23 42 |
| | | | | | DEC. . | 26 13 40 | 26 10 41 |
| 1008. | JAN. . | 27 11 14 | 27 16 11 | 1005. | JAN. . | 25 2 24 | 24 21 52 |
| B. | ○ | 11 5 36 | 11 6 48 | P.E. | FEB. . | 23 15 8 | 23 9 34 |
| 30 23 12 | FEB. . | 25 23 58 | 26 9 40 | 30 16 38 | MAR. . | 24 3 52 | 23 22 8 |
| | MAR. . | 27 12 42 | 28 0 48 | | APRIL | 22 16 36 | 22 11 50 |
| | APRIL | 26 1 26 | 26 13 10 | | MAY . | 22 5 20 | 22 2 33 |
| | MAY . | 25 14 10 | 25 23 6 | | JUNE . | 20 18 4 | 20 18 3 |
| | JUNE . | 24 2 54 | 24 7 21 | | JULY . | 20 6 48 | 20 9 30 |
| | JULY . | 23 15 33 | 23 15 1 | | AUG. . | 18 19 32 | 19 0 20 |
| | AUG. . | 22 4 22 | 21 23 7 | | SEPT. . | 17 8 16 | 17 14 15 |
| | SEPT. . | 20 17 6 | 20 8 25 | | OCT. . | 16 21 0 | 17 3 12 |
| | OCT. . | 20 5 50 | 19 19 30 | | NOV. . | 15 9 44 | 15 15 12 |
| | NOV. . | 18 18 34 | 18 8 35 | | DEC. . | 14 22 28 | 15 2 24 |
| | DEC. . | 18 7 18 | 17 23 40 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 1004. D. March. d. h. m. 30 22 27 | | d. h. m. | d. h. m. | B.C. 1001. A.G. March. d. h. m. 30 15 53 | | d. h. m. | d. h. m. |
| | JAN. . | 13 11 12 | 13 12 47 | | JAN. . | 11 2 23 | 11 14 50 |
| | FEB. . | 11 23 56 | 11 22 34 | | FEB. . | 9 15 7 | 10 5 1 |
| | MAR. . | 13 12 41 | 13 8 13 | | MAR. . | 10 3 51 | 10 16 13 |
| | APRIL | 12 1 25 | 11 18 22 | | APRIL | 8 16 35 | 9 0 56 |
| | MAY . | { 11 14 9 | 11 5 47 | | MAY . | 8 5 19 | 8 8 3 |
| | ○ | { 26 8 31 | 26 15 49 | | JUNE . | 6 18 3 | 6 14 41 |
| | JUNE . | 10 2 53 | 9 19 2 | | JULY . | 6 6 47 | 5 21 55 |
| | JULY . | 9 15 37 | 9 10 5 | | AUG. . | 4 19 31 | 4 6 48 |
| | AUG. . | 8 4 21 | 8 2 28 | | SEPT. . | { 3 8 15 | 2 18 17 |
| | SEPT. . | 6 17 5 | 6 19 20 | | ○ | { 18 2 37 | 18 8 2 |
| | OCT. . | 6 5 49 | 6 11 46 | | OCT. . | 2 20 59 | 2 8 46 |
| | NOV. . | { 4 18 33 | 5 3 5 | | NOV. . | { 1 9 43 | 1 2 6 |
| | ○ | { 19 12 55 | 19 2 55 | | DEC. . | { 30 22 27 | 30 21 16 |
| | DEC. . | 4 7 17 | 4 16 44 | | | 30 11 11 | 30 16 42 |
| 1003. C. 31 4 16 | JAN. . | 2 20 1 | 3 4 38 | 1000. F. 30 21 42 | JAN. . | 28 23 56 | 29 10 44 |
| | FEB. . | 1 8 45 | 1 14 49 | | FEB. . | 27 12 40 | 28 2 11 |
| | MAR. . | 2 21 30 | 2 23 41 | | ○ | { 14 7 2 | 14 1 23 |
| | APRIL | { 1 10 14 | 1 7 48 | | MAR. . | { 29 1 24 | 29 14 33 |
| | ○ | { 30 22 58 | 30 16 4 | | APRIL | 27 14 8 | 28 0 11 |
| | MAY . | { 15 17 20 | 16 3 46 | | MAY . | 27 2 52 | 27 7 55 |
| | JUNE . | { 30 11 42 | 30 1 27 | | JUNE . | 25 15 36 | 25 14 51 |
| | JULY . | 29 0 23 | 23 12 55 | | JULY . | 25 4 20 | 24 22 5 |
| | AUG. . | 28 13 10 | 23 2 56 | | AUG. . | 23 17 4 | 23 6 37 |
| | SEPT. . | 27 1 54 | 26 19 23 | | ○ | { 7 11 26 | 7 15 47 |
| | OCT. . | 25 14 38 | 25 13 27 | | SEPT. . | { 22 5 48 | 21 17 15 |
| | ○ | { 25 3 22 | 25 7 52 | | OCT. . | 21 18 32 | 21 6 27 |
| | NOV. . | { 8 21 44 | 8 13 22 | | NOV. . | 20 7 16 | 19 22 15 |
| | DEC. . | { 23 16 6 | 24 1 20 | | DEC. . | 19 20 0 | 19 16 4 |
| | | 23 4 50 | 23 16 46 | | | | |
| 1002. B. 31 10 5 | JAN. . | 21 17 34 | 22 5 41 | 999. E. 31 3 31 | JAN. . | 18 8 44 | 18 10 42 |
| | FEB. . | 20 6 18 | 20 16 9 | | FEB. . | 16 21 28 | 17 4 48 |
| | MAR. . | 21 19 2 | 22 0 37 | | ○ | { 3 15 50 | 3 15 20 |
| | APRIL | 20 7 46 | 20 7 53 | | MAR. . | { 18 10 12 | 18 21 6 |
| | ○ | { 5 2 8 | 5 8 12 | | APRIL | 16 22 56 | 17 10 49 |
| | MAY . | { 19 20 30 | 19 14 56 | | MAY . | 16 11 40 | 16 21 56 |
| | JUNE . | 18 9 14 | 17 22 53 | | JUNE . | 15 0 21 | 15 7 0 |
| | JULY . | 17 21 58 | 17 8 48 | | JULY . | 14 13 8 | 14 15 1 |
| | AUG. . | 16 10 42 | 15 21 30 | | AUG. . | { 13 1 52 | 12 22 58 |
| | SEPT. . | 14 23 26 | 14 13 13 | | ○ | { 27 20 14 | 27 17 0 |
| | OCT. . | 14 12 10 | 14 7 24 | | SEPT. . | 11 14 36 | 11 7 46 |
| | NOV. . | 13 0 54 | 13 2 49 | | OCT. . | 11 3 20 | 10 18 2 |
| | DEC. . | 12 13 38 | 12 21 46 | | NOV. . | 9 16 4 | 9 6 7 |
| | | | | | DEC. . | 9 4 48 | 8 20 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 998. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 995. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 7 17 32 | 7 11 50 | G. | JAN. . | 4 8 42 | 4 12 5 |
| March. | FEB. . | 6 6 16 | 6 4 40 | March. | FEB. . | 2 21 26 | 2 21 58 |
| <i>d. h. m.</i> | MAR. . | 7 19 1 | 7 21 48 | <i>d. h. m.</i> | MAR. . | 4 10 10 | 4 7 22 |
| 31 9 20 | APRIL | 6 7 45 | 6 14 12 | 31 2 46 | APRIL | 2 22 54 | 2 16 52 |
| | MAY . | 5 20 29 | 6 5 4 | | MAY . | 2 11 38 | 2 3 21 |
| | JUNE . | 4 9 13 | 4 17 58 | | JUNE ○ | 1 0 22 | 31 15 30 |
| | JULY . | 3 21 57 | 4 4 59 | | | 15 18 44 | 15 23 17 |
| | AUG. . | 2 10 41 | 2 14 46 | | | 30 18 6 | 30 5 39 |
| | SEPT. . | 81 23 25 | 1 0 7 | | JULY . | 30 1 50 | 29 21 33 |
| | OCT. . | 30 12 9 | 30 9 45 | | AUG. . | 28 14 34 | 28 14 31 |
| | NOV. . | 30 0 53 | 29 20 6 | | SEPT. . | 27 3 18 | 27 7 33 |
| | DEC. . | 28 18 37 | 28 7 21 | | OCT. . | 26 16 2 | 26 23 43 |
| | | 28 2 21 | 27 19 43 | | NOV. . | 25 4 46 | 25 14 26 |
| | | | | | DEC. . | 24 17 30 | 25 3 15 |
| 997. | ○ | 11 20 43 | 12 9 47 | | | | |
| C.B. | JAN. . | 26 15 5 | 26 9 3 | 994. | JAN. . | 23 6 15 | 23 14 12 |
| | FEB. . | 25 3 49 | 24 23 21 | F. | FEB. . | 21 18 59 | 21 23 30 |
| 30 15 9 | MAR. . | 25 16 31 | 25 14 39 | 31 8 35 | MAR. . | 23 7 43 | 23 7 41 |
| | APRIL | 21 5 18 | 24 6 18 | | APRIL | 21 20 27 | 21 15 33 |
| | MAY . | 23 18 2 | 23 21 42 | | MAY . | 21 9 11 | 21 0 6 |
| | JUNE . | 22 6 46 | 22 12 14 | | JUNE . | 19 21 55 | 19 10 22 |
| | ○ | 7 1 8 | 6 14 14 | | JULY . | 19 10 39 | 18 23 4 |
| | JULY . | 21 19 30 | 22 1 32 | | AUG. . | 17 23 23 | 17 14 26 |
| | AUG. . | 20 8 14 | 20 13 41 | | SEPT. . | 16 12 7 | 16 7 59 |
| | SEPT. . | 18 20 58 | 19 1 0 | | OCT. . | 16 0 51 | 16 2 37 |
| | OCT. . | 18 9 42 | 18 11 56 | | ○ | 30 19 13 | 30 11 56 |
| | NOV. . | 16 22 26 | 16 22 46 | | NOV. . | 14 13 35 | 14 20 52 |
| | DEC. . | 16 11 10 | 16 9 37 | | DEC. . | 14 2 19 | 14 13 32 |
| | ○ | 31 5 32 | 31 15 18 | | | | |
| | | | | 993. | JAN. . | 12 15 3 | 13 3 45 |
| | | | | E.D. | FEB. . | 11 3 47 | 11 15 18 |
| 996. | JAN. . | 14 23 54 | 14 20 31 | 30 14 24 | MAR. . | 11 16 32 | 12 0 33 |
| A. | FEB. . | 13 12 38 | 13 7 39 | | APRIL | 10 5 16 | 10 8 10 |
| 30 20 58 | MAR. . | 15 1 22 | 14 19 26 | | ○ | 24 23 33 | 25 3 52 |
| | APRIL | 13 14 6 | 13 8 17 | | MAY . | 9 13 0 | 9 15 6 |
| | MAY . | 13 2 50 | 12 21 43 | | JUNE . | 8 6 44 | 7 22 24 |
| | JUNE . | 11 15 34 | 11 13 32 | | JULY . | 7 19 28 | 7 7 12 |
| | ○ | 26 9 56 | 26 6 19 | | AUG. . | 6 8 12 | 5 18 27 |
| | JULY . | 11 4 18 | 11 5 9 | | SEPT. . | 4 20 56 | 4 8 46 |
| | AUG. . | 9 17 2 | 9 20 36 | | OCT. . | 4 9 40 | 4 1 56 |
| | SEPT. . | 8 5 46 | 8 11 19 | | ○ | 19 4 2 | 19 3 39 |
| | OCT. . | 7 18 30 | 8 1 2 | | NOV. . | 2 22 24 | 2 21 0 |
| | NOV. . | 6 7 11 | 6 13 43 | | DEC. . | 2 11 8 | 2 16 28 |
| | DEC. . | 5 19 58 | 6 1 23 | | | 31 23 52 | ... |
| | ○ | 20 14 20 | 20 13 21 | 992. | JAN. . | ... | 1 10 38 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 992. C. March. <i>d. h. m.</i> 30 20 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 989. G.F. March. <i>d. h. m.</i> 30 13 39 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { ... 30 12 36 | 1 10 38 31 2 17 | | JAN. . | 28 3 46 { 11 22 8 | 28 0 1 12 7 27 |
| | FEB. . | { ... | ... | | FEB. . | { 26 16 30 | 26 16 51 |
| | MAR. . | { 1 1 21 30 14 5 | 1 14 53 31 0 33 | | MAR. . | 27 5 15 | 27 9 33 |
| | ○ | { 14 8 27 | 14 4 40 | | APRIL | 25 17 59 | 26 1 11 |
| | APRIL | { 29 2 49 | 29 8 22 | | MAY . | 25 6 43 | 25 15 7 |
| | MAY . | 28 15 33 | 28 15 5 | | JUNE . | 23 19 27 | 24 3 12 |
| | JUNE . | 27 4 17 | 26 21 55 | | JULY . | 23 8 11 | 23 13 45 |
| | JULY . | 26 17 1 | 26 5 55 | | ○ | { 7 2 33 | 6 13 45 |
| | AUG. . | 25 5 45 | 24 16 5 | | AUG. . | { 21 20 55 | 21 23 27 |
| | SEPT. . | 23 18 29 | 23 5 8 | | SEPT. . | 20 9 39 | 20 9 5 |
| | ○ | { 8 12 51 | 8 18 17 | | OCT. . | 19 22 23 | 19 19 13 |
| | OCT. . | { 23 7 13 | 22 21 10 | | NOV. . | 18 11 7 | 18 6 6 |
| | NOV. . | 21 19 57 | 21 15 33 | | DEC. . | 17 23 51 | 17 17 48 |
| | DEC. . | 21 8 41 | 21 11 0 | | | | |
| 991. B. 31 2 1 | JAN. . | 19 21 25 | 20 5 50 | 988. E. 30 19 28 | JAN. . | { 16 12 35 31 6 57 | 16 6 24 31 20 36 |
| | FEB. . | 18 10 9 | 18 22 35 | | FEB. . | 15 1 19 | 14 19 57 |
| | MAR. . | 19 22 53 | 20 12 25 | | MAR. . | 16 14 3 | 16 10 29 |
| | ○ | { 3 17 15 | 3 10 35 | | APRIL | 15 2 47 | 15 1 46 |
| | APRIL | { 18 11 37 | 18 23 18 | | MAY . | 14 15 31 | 14 17 17 |
| | MAY . | 18 0 21 | 18 7 52 | | JUNE . | 13 4 15 | 13 8 22 |
| | JUNE . | 16 13 5 | 16 15 8 | | JULY . | { 12 16 59 27 11 21 | 12 22 31 26 22 38 |
| | JULY . | 16 1 49 | 15 22 12 | | ○ | { 27 11 21 | 26 22 38 |
| | AUG. . | 14 14 33 | 14 6 7 | | AUG. . | 11 5 43 | 11 11 28 |
| | SEPT. . | 13 3 17 | 12 15 45 | | SEPT. . | 9 18 27 | 9 23 26 |
| | OCT. . | 12 16 1 | 12 3 41 | | OCT. . | 9 7 11 | 9 10 46 |
| | NOV. . | 11 4 45 | 10 18 14 | | NOV. . | 7 19 55 | 7 21 48 |
| | DEC. . | 10 17 29 | 10 11 1 | | DEC. . | 7 8 39 | 7 8 41 |
| 990. A. 31 7 50 | JAN. . | 9 6 13 | 9 5 14 | 987. D. 31 1 17 | JAN. . | 5 21 23 | 5 19 24 |
| | FEB. . | { 7 18 57 22 13 19 | 7 23 35 22 15 2 | | FEB. . | 4 10 7 | 4 6 9 |
| | ○ | { 22 13 19 | 22 15 2 | | MAR. . | 5 22 52 | 5 17 17 |
| | MAR. . | 9 7 42 | 9 16 47 | | APRIL | 4 11 36 | 4 5 15 |
| | APRIL | 7 20 26 | 8 7 47 | | MAY . | 4 0 20 | 3 18 31 |
| | MAY . | 7 9 10 | 7 20 10 | | JUNE . | 2 13 4 | 2 9 5 |
| | JUNE . | 5 21 54 | 6 6 16 | | JULY . | { 2 1 43 31 14 32 | 2 0 36 31 16 25 |
| | JULY . | 5 10 38 | 5 14 49 | | AUG. . | 30 3 16 | 30 7 50 |
| | AUG. . | 3 23 22 | 3 22 52 | | SEPT. . | 28 16 0 | 28 22 22 |
| | SEPT. . | 2 12 6 | 2 7 21 | | OCT. . | 28 4 44 | 23 11 49 |
| | ○ | { 2 0 50 | 1 16 59 | | NOV. . | 26 17 28 | 27 0 7 |
| | OCT. . | { 31 13 34 | 31 4 12 | | DEC. . | 26 6 12 | 26 11 18 |
| | NOV. . | 30 2 18 | 29 17 13 | | | | |
| | DEC. . | 29 15 2 | 29 7 56 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 986. c. March. d. h. m. 31 7 6 | | d. h. m. | d. h. m. | B.C. 983. F. March. d. h. m. 31 0 32 | | d. h. m. | d. h. m. |
| | JAN. . | 24 18 56 | 24 21 25 | | JAN. . | 21 10 6 | 21 22 48 |
| | FEB. . | 23 7 40 | 23 6 46 | | FEB. . | 19 22 50 | 20 12 52 |
| | MAR. . | 24 20 25 | 24 15 53 | | MAR. . | 21 11 34 | 21 23 53 |
| | APRIL . | 23 9 9 | 23 1 30 | | APRIL . | 20 0 18 | 20 8 26 |
| | MAY . | 22 21 53 | 22 12 37 | | MAY . | 19 13 2 | 19 15 30 |
| | ○ | { 6 16 15 | 6 23 6 | | JUNE . | 18 1 46 | 17 22 9 |
| | JUNE . | { 21 10 37 | 21 1 40 | | JULY . | 17 14 30 | 17 5 30 |
| | JULY . | 20 23 21 | 20 16 48 | | AUG. . | 16 3 14 | 15 14 34 |
| | AUG. . | 19 12 5 | 19 9 30 | | SEPT. . | 14 15 58 | 14 2 13 |
| | SEPT. . | 18 0 49 | 18 2 54 | | OCT. . | 14 4 42 | 13 16 50 |
| | OCT. . | 17 13 33 | 17 19 53 | | NOV. . | 12 17 26 | 12 10 10 |
| | NOV. . | { 16 2 17 | 16 11 36 | | DEC. . | 12 6 10 | 12 5 12 |
| | ○ | { 30 20 39 | 30 11 23 | | | | |
| | DEC. . | 15 15 1 | 16 1 27 | 982. E. 31 6 21 | JAN. . | 10 18 54 | 11 0 27 |
| 985. B.A. 30 12 54 | JAN. . | 14 8 45 | 14 13 17 | | FEB. . | 9 7 38 | 9 18 17 |
| | FEB. . | 12 16 29 | 12 23 12 | | MAR. . | { 10 20 23 | 11 9 33 |
| | MAR. . | 13 5 13 | 13 7 39 | | ○ | { 25 14 45 | 25 8 53 |
| | APRIL . | 11 17 57 | 11 15 23 | | APRIL . | 9 9 7 | 9 21 49 |
| | MAY . | { 11 6 41 | 10 23 19 | | MAY . | 8 21 51 | 9 7 28 |
| | ○ | { 26 1 3 | 26 10 32 | | JUNE . | 7 10 35 | 7 15 17 |
| | JUNE . | 9 19 25 | 9 8 29 | | JULY . | 6 23 19 | 6 22 26 |
| | JULY . | 9 8 9 | 8 19 52 | | AUG. . | 5 12 3 | 5 5 57 |
| | AUG. . | 7 20 53 | 7 9 59 | | SEPT. . | { 4 0 47 | 3 14 45 |
| | SEPT. . | 6 9 37 | 6 2 41 | | ○ | { 18 19 9 | 18 23 19 |
| | OCT. . | 5 22 21 | 5 21 6 | | OCT. . | 3 13 31 | 3 1 37 |
| | NOV. . | { 4 11 5 | 4 15 54 | | NOV. . | 2 2 15 | 1 14 53 |
| | ○ | { 19 5 27 | 18 22 11 | | DEC. . | { 1 14 59 | 1 6 32 |
| | DEC. . | 3 28 49 | 4 9 37 | | | { 31 3 43 | 31 0 0 |
| 984. G. 30 18 43 | JAN. . | 2 12 33 | 3 1 9 | 981. D.C. 30 12 10 | JAN. . | 29 16 27 | 29 18 15 |
| | FEB. . | 1 1 18 | 1 14 0 | | FEB. . | 28 5 11 | 28 12 0 |
| | MAR. . | 2 14 2 | 3 0 12 | | ○ | { 13 23 33 | 13 23 16 |
| | APRIL . | { 1 2 46 | 1 8 23 | | MAR. . | { 28 17 56 | 29 4 4 |
| | ○ | { 30 15 30 | 30 15 24 | | APRIL . | 27 6 40 | 27 17 46 |
| | MAY . | { 15 9 52 | 15 13 30 | | MAY . | 26 19 24 | 27 4 59 |
| | JUNE . | { 30 4 14 | 29 22 19 | | JUNE . | 25 8 8 | 25 14 40 |
| | JULY . | 28 16 58 | 28 6 13 | | JULY . | 24 20 52 | 24 22 43 |
| | AUG. . | 28 5 42 | 27 16 11 | | AUG. . | 23 9 36 | 23 7 4 |
| | SEPT. . | 25 7 10 | 21 20 53 | | ○ | { 7 3 59 | 7 0 20 |
| | OCT. . | 21 10 54 | 24 15 15 | | SEPT. . | { 21 22 20 | 21 16 14 |
| | NOV. . | 23 8 33 | 23 10 43 | | OCT. . | 21 11 4 | 21 2 44 |
| | DEC. . | 22 21 22 | 23 5 49 | | NOV. . | 19 23 48 | 19 14 51 |
| | | | | | DEC. . | 19 12 32 | 19 4 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 980. B. March. <i>d. h. m.</i> 30 17 59 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 977. F.E. March. <i>d. h. m.</i> 30 11 25 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 18 1 16 | 17 19 49 | | JAN. . | 15 16 26 | 15 20 50 |
| | FEB. . | 16 14 0 | 16 12 5 | | FEB. . | 14 5 10 | 14 6 18 |
| | MAR. . | 18 2 44 | 18 4 43 | | MAR. . | 14 17 54 | 14 15 18 |
| | APRIL | 16 15 28 | 16 20 50 | | APRIL | 13 6 38 | 13 0 15 |
| | MAY . | 16 4 12 | 16 11 41 | | MAY . | 12 19 22 | 12 10 19 |
| | JUNE . | 14 16 56 | 15 0 47 | | JUNE . | 11 8 6 | 10 22 13 |
| | JULY . | 14 5 40 | 14 12 14 | | ○ | 26 2 28 | 26 6 44 |
| | AUG. . | 12 18 24 | 12 22 33 | | JULY . | 10 20 50 | 10 12 20 |
| | SEPT. . | 11 7 8 | 11 8 23 | | AUG. . | 9 9 34 | 9 4 29 |
| | OCT. . | 10 19 52 | 10 18 26 | | SEPT. . | 7 22 18 | 7 21 52 |
| | NOV. . | 9 8 36 | 9 5 0 | | OCT. . | 7 11 2 | 7 15 26 |
| | DEC. . | 8 21 20 | 8 16 16 | | NOV. . | 5 23 46 | 6 8 6 |
| | | | | | DEC. . | 5 12 30 | 5 23 4 |
| 979. A. | JAN. . | 7 10 4 | 7 4 14 | 976. D. | JAN. . | 4 1 14 | 4 11 55 |
| 30 23 47 | ○ | 22 4 26 | 22 17 55 | 30 17 14 | FEB. . | 2 13 58 | 2 22 39 |
| | FEB. . | 5 22 48 | 5 17 1 | | MAR. . | 4 2 43 | 4 7 36 |
| | MAR. . | 7 11 33 | 7 6 47 | | APRIL | 2 15 27 | 2 15 25 |
| | APRIL | 6 0 17 | 5 21 27 | | MAY . | 2 4 11 | 1 22 57 |
| | MAY . | 5 13 1 | 5 12 46 | | ○ | 31 16 55 | 31 7 15 |
| | JUNE . | 4 1 45 | 4 4 9 | | JUNE . | 30 5 39 | 29 17 24 |
| | JULY . | 3 14 29 | 3 18 57 | | JULY . | 29 18 23 | 29 6 7 |
| | ○ | 18 8 51 | 17 21 43 | | AUG. . | 28 7 7 | 27 21 41 |
| | AUG. . | 2 3 13 | 2 8 46 | | SEPT. . | 26 19 51 | 26 15 32 |
| | ○ | 31 15 57 | 31 21 30 | | OCT. . | 26 8 35 | 26 10 29 |
| | SEPT. . | 30 4 41 | 30 9 23 | | ○ | 10 2 57 | 9 20 49 |
| | OCT. . | 29 17 25 | 29 20 45 | | NOV. . | 24 21 19 | 25 5 5 |
| | NOV. . | 28 6 9 | 28 7 46 | | DEC. . | 24 10 3 | 24 21 51 |
| | DEC. . | 27 18 53 | 27 18 29 | | | | |
| 978. G. | ○ | 11 13 15 | 11 21 50 | 975. C. | JAN. . | 22 22 47 | 23 12 3 |
| 31 5 36 | JAN. . | 26 7 37 | 26 4 59 | 30 23 3 | FEB. . | 21 11 31 | 21 23 21 |
| | FEB. . | 24 20 21 | 24 15 35 | | MAR. . | 23 0 16 | 23 8 24 |
| | MAR. . | 26 9 6 | 26 2 47 | | APRIL | 21 13 0 | 21 15 46 |
| | APRIL | 24 21 50 | 24 15 8 | | ○ | 6 7 22 | 6 10 22 |
| | MAY . | 24 10 34 | 24 4 55 | | MAY . | 21 1 44 | 20 22 32 |
| | JUNE . | 22 23 18 | 22 20 2 | | JUNE . | 19 14 28 | 19 5 46 |
| | ○ | 7 17 40 | 7 13 55 | | JULY . | 19 3 12 | 18 14 35 |
| | JULY . | 22 12 2 | 22 11 55 | | AUG. . | 17 15 56 | 17 1 58 |
| | AUG. . | 21 0 46 | 21 3 52 | | SEPT. . | 16 4 40 | 15 16 25 |
| | SEPT. . | 19 13 30 | 19 19 10 | | OCT. . | 15 17 24 | 15 9 45 |
| | OCT. . | 19 2 14 | 19 9 28 | | ○ | 30 11 46 | 30 12 31 |
| | NOV. . | 17 14 58 | 17 22 31 | | NOV. . | 14 6 8 | 14 4 57 |
| | DEC. . | 17 3 42 | 17 10 17 | | DEC. . | 13 18 52 | 14 0 28 |
| | ○ | 31 22 4 | 31 21 13 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|----------|------------------------------------|------------------------------------|
| B.C. 974. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 971. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. <i>d. h. m.</i> 31 4 51 | JAN. . | 12 7 36 | 12 18 36 | E. March. <i>d. h. m.</i> 30 22 18 | JAN. . | 8 22 46 | 8 16 9 |
| | FEB. . | 10 20 20 | 11 10 8 | | FEB. . | { 7 11 30 | 7 7 41 |
| | MAR. . | 12 9 4 | 12 22 33 | | ○ | { 22 5 52 | 22 15 38 |
| | APRIL . | { 10 21 48 | 11 8 11 | | MAR. . | 9 0 14 | 8 23 56 |
| | ○ | { 25 16 10 | 25 11 20 | | APRIL . | 7 12 58 | 7 16 14 |
| | MAY . | 10 10 82 | 10 15 48 | | MAY . | 7 1 42 | 7 7 44 |
| | JUNE . | 8 23 16 | 8 22 33 | | JUNE . | 5 14 26 | 5 21 49 |
| | JULY . | 8 12 0 | 8 5 28 | | JULY . | 5 3 10 | 5 10 15 |
| | AUG. . | 7 0 41 | 6 13 39 | | AUG. . | { 3 15 54 | 3 21 17 |
| | SEPT. . | 5 13 28 | 5 0 1 | | ○ | { 18 10 16 | 17 21 15 |
| | OCT. . | { 5 2 12 | 4 13 13 | | SEPT. . | 2 4 38 | 2 7 32 |
| | ○ | { 19 20 31 | 20 2 50 | | OCT. . | { 1 17 22 | 1 17 40 |
| | NOV. . | 8 14 56 | 8 4 57 | | { 31 6 6 | 31 4 6 | |
| | DEC. . | 8 3 40 | 2 23 35 | | NOV. . | 29 18 50 | 29 15 2 |
| | | | | | DEC. . | 29 7 34 | 29 2 30 |
| 973. | JAN. . | { 1 16 24 | 1 18 48 | 970. | JAN. . | 27 20 18 | 27 14 37 |
| A.G. | | { 31 5 8 | 31 13 24 | D. | ○ | { 11 14 40 | 12 4 35 |
| | FEB. . | 29 17 53 | { ... | | FEB. . | { 26 9 2 | 26 3 34 |
| | | { ... | { 1 5 58 | | MAR. . | 27 21 47 | 27 17 31 |
| 30 10 40 | MAR. . | { 30 6 37 | 30 19 41 | 31 4 7 | APRIL . | 26 10 31 | 26 8 22 |
| | ○ | { 14 0 59 | 13 17 48 | | MAY . | 25 23 15 | 25 23 43 |
| | APRIL . | { 28 19 21 | 29 6 32 | | JUNE . | 24 11 59 | 24 14 57 |
| | MAY . | 28 8 5 | 28 15 11 | | JULY . | 24 0 43 | 24 5 31 |
| | JUNE . | 26 20 49 | 26 22 38 | | ○ | { 7 19 5 | 7 6 17 |
| | JULY . | 26 9 33 | 26 5 59 | | AUG. . | { 22 13 27 | 22 19 3 |
| | AUG. . | 24 22 17 | 24 14 12 | | SEPT. . | 21 2 11 | 21 7 38 |
| | SEPT. . | 23 11 1 | 23 0 6 | | OCT. . | 20 14 55 | 20 19 28 |
| | OCT. . | 22 23 45 | 22 12 12 | | NOV. . | 19 3 39 | 19 6 46 |
| | NOV. . | 21 12 29 | 21 2 39 | | DEC. . | 18 16 23 | 18 17 37 |
| | DEC. . | 21 1 13 | 20 19 10 | | | | |
| 972. | JAN. . | 19 18 57 | 19 12 57 | 969. | JAN. . | 17 5 7 | 17 4 3 |
| F. | FEB. . | 18 2 41 | 18 6 54 | C.B. | FEB. . | 15 17 51 | 15 14 19 |
| | ○ | { 4 21 3 | 4 23 7 | | MAR. . | 16 6 35 | 16 0 51 |
| 30 16 29 | MAR. . | { 19 15 26 | 19 23 48 | 30 9 56 | APRIL . | 14 19 19 | 14 12 18 |
| | APRIL . | 18 4 10 | 18 14 39 | | MAY . | 14 8 3 | 14 1 9 |
| | MAY . | 17 16 54 | 18 8 7 | | JUNE . | 12 20 47 | 12 15 34 |
| | JUNE . | 16 5 38 | 16 13 27 | | JULY . | 12 9 31 | 12 7 13 |
| | JULY . | 15 18 22 | 15 22 23 | | AUG. . | 10 22 15 | 10 23 26 |
| | AUG. . | 14 7 6 | 14 6 49 | | SEPT. . | 9 10 59 | 9 15 26 |
| | SEPT. . | 12 19 50 | 12 15 43 | | OCT. . | 8 23 43 | 9 6 33 |
| | OCT. . | 12 8 34 | 12 1 40 | | NOV. . | 7 12 27 | 7 20 28 |
| | NOV. . | 10 21 18 | 10 13 0 | | DEC. . | 7 1 11 | 7 8 58 |
| | DEC. . | 10 10 2 | 10 1 51 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full E 1.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 968. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 965. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. | | | |
| March. | JAN. . | 5 13 55 | 5 20 4 | March. | JAN. . | 3 5 5 | 3 13 44 |
| <i>d. h. m.</i> | FEB. . | 4 2 39 | 4 5 53 | <i>d. h. m.</i> | FEB. . | 1 17 49 | 2 6 33 |
| 30 15 44 | MAR. . | 5 15 24 | 5 14 48 | 30 9 11 | MAR. . | { 2 6 34 | 2 20 33 |
| | APRIL . | 4 4 8 | 3 23 26 | | | { 31 19 18 | { 1 7 58 |
| | MAY . | 3 16 52 | 3 8 40 | | APRIL . | 30 8 2 | { 30 15 53 |
| | JUNE . | { 2 5 36 | 1 19 26 | | MAY . | 29 20 46 | 29 22 57 |
| | ○ | { 16 23 58 | 17 6 24 | | JUNE . | 28 9 30 | 28 5 41 |
| | JULY . | { 1 18 20 | 1 8 22 | | JULY . | 27 22 14 | 27 13 12 |
| | | { 31 7 4 | 30 23 39 | | AUG. . | 26 10 58 | 25 22 30 |
| | AUG. . | 29 19 48 | 29 16 41 | | SEPT. . | 24 23 42 | 24 10 20 |
| | SEPT. . | 28 8 32 | 28 10 32 | | OCT. . | 24 12 26 | 24 1 2 |
| | OCT. . | 27 21 16 | 23 4 1 | | NOV. . | 23 1 10 | 22 18 17 |
| | NOV. . | 26 10 0 | 26 20 5 | | DEC. . | 22 13 54 | 22 13 8 |
| | ○ | { 11 4 22 | 10 19 50 | | | | |
| | DEC. . | { 25 22 44 | 26 10 5 | 964. | JAN. . | 21 2 38 | 21 8 6 |
| | | | | c. | FEB. . | 19 15 22 | 20 1 41 |
| 967. | JAN. . | 24 11 28 | 24 21 46 | 30 15 0 | MAR. . | 21 4 7 | 21 16 48 |
| G. | FEB. . | 23 0 12 | 23 7 24 | | ○ | { 4 22 29 | 4 16 20 |
| 30 21 33 | MAR. . | 24 12 57 | 24 15 31 | | APRIL . | { 19 16 51 | 20 5 0 |
| | APRIL . | 23 1 41 | 22 22 55 | | MAY . | 19 5 33 | 19 14 41 |
| | MAY . | 22 14 25 | 22 6 33 | | JUNE . | 17 18 19 | 17 22 42 |
| | ○ | { 6 8 47 | 6 17 25 | | JULY . | 17 7 3 | 17 6 6 |
| | JUNE . | { 21 3 9 | 20 15 36 | | AUG. . | 15 19 47 | 15 13 56 |
| | JULY . | 20 15 53 | 20 2 58 | | SEPT. . | { 14 8 31 | 13 23 5 |
| | AUG. . | 19 4 37 | 18 17 12 | | ○ | { 29 2 53 | 29 7 17 |
| | SEPT. . | 17 17 21 | 17 10 7 | | OCT. . | 13 21 15 | 13 10 8 |
| | OCT. . | 17 6 5 | 17 4 51 | | NOV. . | 12 9 59 | 11 23 25 |
| | NOV. . | { 15 18 49 | 15 23 58 | | DEC. . | 11 22 43 | 11 14 50 |
| | ○ | { 30 18 11 | 30 7 3 | | | | |
| | DEC. . | 15 7 33 | 15 17 52 | 963. | JAN. . | 10 11 27 | 10 7 54 |
| | | | | h. | FEB. . | 9 0 11 | 9 1 41 |
| 966. | JAN. . | 13 20 17 | 14 9 26 | 30 20 49 | MAR. . | { 10 12 55 | 10 19 2 |
| F. | FEB. . | 12 9 1 | 12 22 7 | | ○ | { 23 7 17 | 25 7 5 |
| 31 3 22 | MAR. . | 13 21 45 | 14 8 5 | | APRIL . | 9 1 39 | 9 10 58 |
| | APRIL . | 12 10 29 | 12 16 1 | | MAY . | 8 14 23 | 9 0 34 |
| | MAY . | { 11 23 13 | 11 22 53 | | JUNE . | 7 3 7 | 7 12 1 |
| | ○ | { 26 17 35 | 26 21 11 | | JULY . | 6 15 51 | 6 21 41 |
| | JUNE . | 10 11 57 | 10 5 43 | | AUG. . | 5 4 33 | 5 6 29 |
| | JULY . | 10 0 41 | 9 13 37 | | SEPT. . | { 3 17 19 | 3 15 18 |
| | AUG. . | 8 13 25 | 7 23 41 | | ○ | { 18 11 41 | 18 7 43 |
| | SEPT. . | 7 2 9 | 6 12 33 | | OCT. . | 3 6 3 | 3 0 51 |
| | OCT. . | 6 14 53 | 6 4 40 | | NOV. . | 1 18 47 | { 1 11 33 |
| | NOV. . | 5 3 37 | 4 23 9 | | DEC. . | { 1 7 31 | { 30 23 36 |
| | DEC. . | 4 16 21 | 4 18 45 | | | { 30 20 15 | 30 13 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|-------------|------------------------------------|------------------------------------|
| B.C. 962. A. March. <i>d. h. m.</i> 31 2 37 | JAN. . | <i>d. h. m.</i> 29 9 0 | <i>d. h. m.</i> 29 3 43 | B.C. 959. D. March. <i>d. h. m.</i> 30 20 4 | ○ JAN. . | <i>d. h. m.</i> { 11 5 48 | <i>d. h. m.</i> 11 5 1 |
| | FEB. . | 27 21 44 | 27 19 23 | | FEB. . | { 26 0 10 | 26 5 25 |
| | MAR. . | 29 10 28 | 29 11 31 | | MAR. . | 24 12 54 | 24 14 30 |
| | APRIL . | 27 23 12 | 23 3 24 | | APRIL . | 26 1 33 | 25 22 58 |
| | MAY . | 27 11 56 | 27 18 16 | | MAY . | 24 14 22 | 21 7 34 |
| | JUNE . | 26 0 40 | 26 7 41 | | JUNE . | 24 3 6 | 23 17 18 |
| | JULY . | 25 13 24 | 25 19 36 | | ○ | { 7 10 12 | 7 14 13 |
| | AUG. . | 24 2 8 | 24 6 26 | | JULY . | { 22 4 31 | 21 19 10 |
| | SEPT. . | 22 14 52 | 22 16 49 | | AUG. . | 20 17 18 | 20 11 32 |
| | OCT. . | 22 3 36 | 22 3 15 | | SEPT. . | 19 6 2 | 19 5 20 |
| | NOV. . | 20 16 20 | 20 13 59 | | OCT. . | 18 18 46 | 18 23 23 |
| | DEC. . | 20 5 4 | 20 1 6 | | NOV. . | 17 7 30 | 17 16 28 |
| | | | | | DEC. . | 16 20 14 | 17 7 33 |
| 961. G.F. | JAN. . | 18 17 48 | 18 12 40 | 958. C. | JAN. . | 15 8 58 | 15 20 27 |
| 30 8 26 | ○ | { 2 12 10 | 3 1 54 | 31 1 53 | FEB. . | 13 21 42 | 14 6 57 |
| | FEB. . | { 17 6 32 | 17 0 53 | | MAR. . | 15 10 27 | 15 15 36 |
| | MAR. . | 17 19 17 | 17 14 2 | | APRIL . | 13 23 11 | 13 23 5 |
| | APRIL . | 16 8 1 | 16 4 12 | | MAY . | 13 11 55 | 13 6 20 |
| | MAY . | 15 20 45 | 15 19 14 | | JUNE . | 12 0 39 | 11 14 27 |
| | JUNE . | 14 9 29 | 14 10 39 | | JULY . | 11 13 23 | 11 0 31 |
| | JULY . | { 13 22 13 | 14 1 46 | | AUG. . | 10 2 7 | 9 13 20 |
| | ○ | { 28 16 35 | 23 5 21 | | SEPT. . | 8 14 51 | 8 5 4 |
| | AUG. . | 12 10 57 | 12 16 6 | | OCT. . | 8 3 35 | 7 23 12 |
| | SEPT. . | 10 23 41 | 11 5 27 | | NOV. . | { 6 16 19 | 6 18 27 |
| | OCT. . | 10 12 25 | 10 17 54 | | ○ | { 21 10 41 | 21 5 45 |
| | NOV. . | 9 1 9 | 9 5 37 | | DEC. . | 6 5 3 | 6 13 15 |
| | DEC. . | 8 13 53 | 8 16 44 | | | | |
| 960. E. | JAN. . | { 7 2 37 | 7 3 15 | 957. D.A. | JAN. . | 4 17 47 | 5 6 6 |
| 30 14 15 | ○ | { 21 20 59 | 22 5 34 | 30 7 42 | FEB. . | 3 6 31 | 3 20 11 |
| | FEB. . | 5 15 21 | 5 13 21 | | MAR. . | 3 19 15 | 4 7 21 |
| | MAR. . | 7 4 5 | 6 23 25 | | APRIL . | 2 7 59 | 2 16 6 |
| | APRIL . | 5 16 49 | 5 10 3 | | | { 1 20 43 | 1 23 18 |
| | MAY . | 5 5 33 | 4 21 55 | | MAY ○ | { 16 15 5 | 16 15 44 |
| | JUNE . | 3 18 17 | 3 11 27 | | | { 31 9 27 | 31 5 57 |
| | JULY . | { 3 7 1 | 3 2 35 | | JUNE . | 29 22 11 | 29 13 10 |
| | ○ | { 18 1 23 | 17 21 36 | | JULY . | 29 10 55 | 28 22 6 |
| | AUG. . | { 1 19 45 | 1 18 45 | | AUG. . | 27 23 39 | 27 9 36 |
| | | { 31 8 29 | 31 11 12 | | SEPT. . | 26 12 23 | 26 0 13 |
| | SEPT. . | 29 21 13 | 30 3 8 | | OCT. . | 23 1 7 | 23 17 39 |
| | OCT. . | 29 9 57 | 29 17 57 | | ○ | { 9 19 29 | 9 21 26 |
| | NOV. . | 27 22 41 | 23 7 18 | | NOV. . | { 24 13 51 | 24 12 54 |
| | DEC. . | 27 11 25 | 27 19 5 | | DEC. . | 24 2 35 | 24 8 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 956. G. March. d. h. m. 30 13 30 | | d. h. m. | d. h. m. | B.C. 953. D.C. March. d. h. m. 30 6 57 | | d. h. m. | d. h. m. |
| | JAN. . | 22 15 20 | 23 2 26 | | JAN. . | 20 6 30 | 20 0 17 |
| | FEB. . | 21 4 4 | 21 17 49 | | FEB. . | 18 19 14 | 18 15 13 |
| | MAR. . | 22 16 48 | 23 6 6 | | ○ | 4 13 36 | 4 23 40 |
| | APRIL | 21 5 32 | 21 15 37 | | MAR. . | 19 7 58 | 19 6 55 |
| | ○ | 5 23 54 | 5 18 0 | | APRIL | 17 20 42 | 17 22 50 |
| | MAY . | 20 18 16 | 20 23 14 | | MAY . | 17 9 26 | 17 14 15 |
| | JUNE . | 19 7 0 | 19 6 1 | | JUNE . | 15 22 10 | 16 4 31 |
| | JULY . | 18 19 44 | 18 13 8 | | JULY . | 15 10 54 | 15 17 22 |
| | AUG. . | 17 8 23 | 16 21 33 | | AUG. . | 13 23 38 | 14 4 58 |
| | SEPT. . | 15 21 12 | 15 8 9 | | ○ | 28 18 0 | 28 4 36 |
| | OCT. . | 15 9 56 | 14 21 28 | | SEPT. . | 12 12 22 | 12 15 47 |
| | ○ | 30 4 18 | 30 11 29 | | OCT. . | 12 1 6 | 12 2 22 |
| | NOV. . | 13 22 40 | 13 13 29 | | NOV. . | 10 13 50 | 10 13 3 |
| | DEC. . | 13 11 24 | 13 7 37 | | DEC. . | 10 2 34 | 9 23 57 |
| 955. F. 30 19 19 | JAN. . | 12 0 8 | 12 2 34 | 952. B. 30 12 46 | JAN. . | 8 15 18 | 8 11 7 |
| | FEB. . | 10 12 52 | 10 20 51 | | FEB. . | 7 4 2 | 6 22 44 |
| | MAR. . | 12 1 36 | 12 13 11 | | ○ | 21 22 21 | 22 12 25 |
| | APRIL | 10 14 20 | 11 2 47 | | MAR. . | 8 16 46 | 8 11 4 |
| | ○ | 25 8 42 | 25 0 53 | | APRIL | 7 5 30 | 7 0 26 |
| | MAY . | 10 3 4 | 10 13 41 | | MAY . | 6 18 14 | 6 14 52 |
| | JUNE . | 8 15 48 | 8 22 23 | | JUNE . | 5 6 58 | 5 6 9 |
| | JULY . | 8 4 32 | 8 6 10 | | JULY . | 4 19 42 | 4 21 35 |
| | AUG. . | 6 17 16 | 6 13 51 | | AUG. . | 3 8 26 | 3 12 36 |
| | SEPT. . | 5 6 0 | 4 22 26 | | ○ | 18 2 43 | 17 14 4 |
| | OCT. . | 4 18 44 | 4 8 36 | | SEPT. . | 1 21 10 | 2 2 45 |
| | NOV. . | 3 7 28 | 2 20 43 | | OCT. . | 1 9 54 | 1 15 55 |
| | DEC. . | 2 20 12 | 2 11 6 | | ○ | 30 22 33 | 31 4 13 |
| 954. E. 31 1 8 | JAN. . | 1 8 56 | 1 3 15 | 951. A. 30 18 35 | JAN. . | 27 12 51 | 27 12 37 |
| | ○ | 30 21 40 | 30 20 33 | | FEB. . | 26 1 35 | 25 22 22 |
| | FEB. . | ... | ... | | MAR. . | 27 14 19 | 27 8 21 |
| | ○ | 1 10 25 | 1 14 2 | | APRIL | 26 3 3 | 25 19 17 |
| | MAR. . | 16 4 47 | 16 7 6 | | MAY . | 25 15 47 | 25 7 49 |
| | ○ | 30 23 9 | 31 6 37 | | JUNE . | 24 4 31 | 23 22 7 |
| | APRIL | 29 11 53 | 29 21 23 | | JULY . | 23 17 15 | 23 13 53 |
| | MAY . | 29 0 37 | 29 9 59 | | AUG. . | 22 5 59 | 22 6 35 |
| | JUNE . | 27 13 21 | 27 20 37 | | SEPT. . | 20 18 43 | 20 23 9 |
| | JULY . | 27 2 5 | 27 5 58 | | OCT. . | 20 7 27 | 20 14 51 |
| | AUG. . | 25 14 49 | 25 14 54 | | NOV. . | 18 20 11 | 19 5 8 |
| | SEPT. . | 24 3 33 | 24 0 14 | | DEC. . | 18 8 55 | 18 17 47 |
| | OCT. . | 23 16 17 | 23 10 27 | | | | |
| | NOV. . | 22 5 1 | 21 21 50 | | | | |
| | DEC. . | 21 17 45 | 21 10 26 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 950. G. March. <i>d. h. m.</i> 31 0 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 947. C. March. <i>d. h. m.</i> 30 17 50 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 21 39 | 17 4 45 | | JAN. . | 13 12 49 | 13 21 34 |
| | FEB. . | 15 10 23 | 15 14 14 | | FEB. . | 12 1 33 | 12 14 19 |
| | MAR. . | 16 23 8 | 16 22 44 | | MAR. . | 13 14 18 | 14 4 5 |
| | APRIL | 15 11 52 | 15 6 55 | | APRIL | 12 3 2 | 12 14 51 |
| | MAY . | 15 0 36 | 14 15 47 | | MAY . | 11 15 46 | 11 23 16 |
| | JUNE . | { 13 13 20 | 13 2 19 | | JUNE . | 10 4 30 | 10 6 23 |
| | ○ | { 28 7 42 | 28 13 44 | | JULY . | 9 17 14 | 9 13 17 |
| | JULY . | 13 2 4 | 12 15 13 | | AUG. . | 8 5 58 | 7 21 4 |
| | AUG. . | 11 14 48 | 11 6 36 | | SEPT. . | 6 18 42 | 6 6 37 |
| | SEPT. . | 10 3 32 | 10 0 0 | | OCT. . | 6 7 26 | 5 18 36 |
| | OCT. . | 9 16 16 | 9 18 18 | | NOV. . | 4 20 10 | 4 9 20 |
| | NOV. . | 8 5 0 | 8 12 13 | | DEC. . | 4 8 54 | 4 2 26 |
| | DEC. . | { 7 17 44 | 8 4 34 | | | | |
| | ○ | { 22 12 6 | 22 4 17 | | | | |
| 949. F.E. 30 6 12 | JAN. . | 6 6 28 | 6 18 37 | 946. B. 30 23 39 | JAN. . | 2 21 33 | 2 20 59 |
| | FEB. . | 4 19 12 | 5 6 8 | | FEB. . | 1 10 22 | 1 15 37 |
| | MAR. . | 5 7 56 | 5 15 29 | | MAR. . | 2 23 6 | 3 8 56 |
| | APRIL | 3 20 40 | 3 23 16 | | APRIL | { 1 11 50 | 1 23 52 |
| | MAY . | 3 9 24 | 3 6 22 | | ○ | { 16 6 12 | 15 23 40 |
| | JUNE . | { 1 22 8 | { 1 13 50 | | MAY . | { 1 0 34 | 1 12 4 |
| | ○ | { 16 16 30 | { 17 0 16 | | | { 30 13 18 | 30 21 52 |
| | | { 1 10 52 | { 30 22 47 | | JUNE . | 29 2 2 | 29 6 7 |
| | JULY . | { 30 23 36 | 30 10 10 | | JULY . | 23 14 46 | 23 13 51 |
| | AUG. . | 29 12 20 | 29 0 32 | | AUG. . | 27 3 30 | 26 22 4 |
| | SEPT. . | 23 1 4 | 27 17 42 | | SEPT. . | 25 16 14 | 25 7 32 |
| | OCT. . | 27 13 48 | 27 12 43 | | ○ | { 10 10 36 | 10 15 9 |
| | NOV. . | 26 2 32 | 26 8 1 | | OCT. . | { 25 4 58 | 24 13 46 |
| | ○ | { 10 20 54 | 10 15 53 | | NOV. . | 23 17 42 | 23 7 59 |
| | DEC. . | { 25 15 16 | 26 2 2 | | DEC. . | 23 6 26 | 22 23 6 |
| 948. D. 30 12 1 | JAN. . | 24 4 1 | 24 17 34 | 945. A.G. 30 5 28 | JAN. . | 21 19 10 | 21 15 42 |
| | FEB. . | 22 16 45 | 23 6 6 | | FEB. . | 20 7 54 | 20 8 58 |
| | MAR. . | 24 5 29 | 24 15 52 | | MAR. . | 20 20 39 | 21 1 56 |
| | APRIL | 22 18 13 | 22 23 37 | | ○ | { 4 15 1 | 4 14 49 |
| | MAY . | 22 6 57 | 22 6 20 | | APRIL | { 19 9 23 | 19 17 37 |
| | ○ | { 6 1 19 | 6 3 42 | | MAY . | 18 22 7 | 19 7 21 |
| | JUNE . | { 20 19 41 | 20 13 9 | | JUNE . | 17 10 51 | 17 19 3 |
| | JULY . | 20 8 25 | 19 21 9 | | JULY . | 16 23 35 | 17 5 8 |
| | AUG. . | 18 21 9 | 18 7 21 | | AUG. . | 15 12 19 | 15 14 25 |
| | SEPT. . | 17 9 53 | 16 20 28 | | SEPT. . | { 14 1 3 | 13 23 42 |
| | OCT. . | 16 22 37 | 16 12 36 | | ○ | { 28 19 25 | 28 15 16 |
| | NOV. . | 15 11 21 | 15 7 9 | | OCT. . | 13 13 47 | 13 9 34 |
| | DEC. . | 15 0 5 | 15 2 42 | | NOV. . | 12 2 31 | 11 20 26 |
| | | | | | DEC. . | 11 15 15 | 11 8 21 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 944. F. March. <i>d. h. m.</i> 30 11 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 941. C.B. March. <i>d. h. m.</i> 30 4 43 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 3 59 | 9 21 23 | | JAN. . | { 7 19 9 | 8 3 49 |
| | FEB. . | 8 16 43 | 8 11 29 | | ○ | { 22 13 31 | 22 12 41 |
| | MAR. . | { 10 5 27 | 10 2 34 | | FEB. . | 6 7 53 | 6 13 52 |
| | ○ | { 24 23 49 | 25 7 49 | | MAR. . | 6 20 37 | 6 22 35 |
| | APRIL | 8 18 11 | 8 18 14 | | APRIL | 5 9 21 | 5 6 36 |
| | MAY . | 8 6 55 | 8 9 53 | | MAY . | 4 22 5 | 4 14 49 |
| | JUNE . | 6 19 39 | 7 0 50 | | JUNE . | 3 10 49 | 3 0 17 |
| | JULY . | 6 8 23 | 6 14 35 | | JULY . | { 2 23 33 | 2 11 53 |
| | AUG. . | 4 21 7 | 5 3 0 | | ○ | { 17 17 55 | 17 21 45 |
| | SEPT. . | 3 9 51 | 3 14 27 | | AUG. . | { 1 12 17 | 1 2 5 |
| | OCT. . | 2 22 35 | 3 1 21 | | SEPT. . | { 31 1 1 | 30 18 42 |
| | NOV. . | 1 11 19 | { 1 12 7 | | OCT. . | 29 13 45 | 29 12 54 |
| | DEC. . | { 1 0 3 | { 30 22 56 | | NOV. . | 29 2 29 | 29 7 24 |
| | | { 30 12 47 | 30 9 53 | | DEC. . | 27 15 13 | 28 0 48 |
| | | | | | | 27 3 57 | 27 16 6 |
| 943. E. | JAN. . | 29 1 31 | 28 21 1 | 940. A. | JAN. . | 25 16 41 | 26 4 51 |
| | ○ | { 12 19 53 | 13 9 43 | | FEB. . | 24 5 25 | 24 15 7 |
| | FEB. . | { 27 14 16 | 27 8 39 | | MAR. . | 25 18 10 | 25 23 20 |
| 30 17 5 | MAR. . | 29 3 0 | 28 21 10 | 30 10 32 | APRIL | 24 6 54 | 24 6 36 |
| | APRIL | 27 15 44 | 27 10 53 | | MAY . | 23 19 38 | 23 13 40 |
| | MAY . | 27 4 28 | 27 1 40 | | JUNE . | 22 8 22 | 21 21 41 |
| | JUNE . | 25 17 12 | 25 17 9 | | JULY . | 21 21 6 | 21 7 47 |
| | JULY . | 25 5 56 | 25 8 37 | | AUG. . | 20 9 50 | 19 20 41 |
| | ○ | { 9 0 13 | 8 13 7 | | SEPT. . | 18 22 34 | 18 12 36 |
| | AUG. . | { 23 18 40 | 23 23 31 | | OCT. . | 18 11 18 | 18 6 53 |
| | SEPT. . | 22 7 24 | 22 13 30 | | NOV. . | 17 0 2 | 17 2 23 |
| | OCT. . | 21 20 8 | 22 2 29 | | ○ | { 1 18 24 | 1 14 33 |
| | NOV. . | 20 8 52 | 20 14 30 | | DEC. . | { 16 12 46 | 16 21 13 |
| | DEC. . | 19 21 36 | 20 1 38 | | | | |
| 942. D. | JAN. . | 18 10 20 | 18 11 55 | 939. G. | JAN. . | 15 1 30 | 15 14 13 |
| | ○ | { 2 4 42 | 2 13 7 | | FEB. . | 13 14 14 | 14 4 16 |
| | FEB. . | { 16 23 4 | 16 21 36 | 30 16 21 | MAR. . | 15 2 59 | 15 15 1 |
| 30 22 54 | MAR. . | 18 11 49 | 18 7 8 | | APRIL | 13 15 43 | 13 23 43 |
| | APRIL | 17 0 33 | 16 17 15 | | MAY . | { 13 4 27 | 13 6 4 |
| | MAY . | 16 13 17 | 16 4 43 | | ○ | { 27 22 49 | 27 23 1 |
| | JUNE . | 15 2 1 | 14 13 2 | | JUNE . | 11 17 11 | 11 13 2 |
| | JULY . | { 14 14 45 | 14 9 13 | | JULY . | 11 5 55 | 10 20 4 |
| | ○ | { 29 9 7 | 29 5 23 | | AUG. . | 9 18 39 | 9 5 4 |
| | AUG. . | 13 3 29 | 13 1 44 | | SEPT. . | 8 7 23 | 7 17 2 |
| | SEPT. . | 11 16 13 | 11 13 42 | | OCT. . | 7 20 7 | 7 8 1 |
| | OCT. . | 11 4 57 | 11 11 11 | | NOV. . | { 6 8 51 | 6 1 4 |
| | NOV. . | 9 17 41 | 10 2 28 | | ○ | { 21 3 13 | 21 6 2 |
| | DEC. . | 9 6 25 | 9 16 4 | | DEC. . | 5 21 35 | 5 20 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 938. P. March. <i>d. h. m.</i> 30 22 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 935. B. March. <i>d. h. m.</i> 30 15 36 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 4 10 19 | 4 16 14 | | JAN. . | { 1 1 29 | ... |
| | FEB. . | 2 23 3 | 3 10 6 | | FEB. . | { 30 14 13 | 30 8 17 |
| | MAR. . | 4 11 47 | 5 1 18 | | MAR. ○ | ... | 28 22 37 |
| | APRIL . | 3 0 31 | 3 13 23 | | APRIL . | { 1 2 57 | ... |
| | MAY . | { 2 13 15 | 2 22 57 | | MAY . | { 15 21 19 | 16 7 32 |
| | ○ | { 17 7 37 | 17 0 33 | | ○ | { 30 15 41 | 30 13 47 |
| | JUNE . | { 1 1 59 | 1 6 36 | | APRIL . | 29 4 25 | 29 5 22 |
| | JULY . | { 30 14 43 | 30 13 34 | | MAY . | 28 17 9 | 28 20 43 |
| | AUG. . | 30 3 27 | 29 20 54 | | JUNE . | 27 5 53 | 27 11 14 |
| | SEPT. . | 28 16 11 | 28 5 36 | | JULY . | 26 18 37 | 27 0 33 |
| | OCT. . | 27 4 55 | 26 16 24 | | AUG. . | 25 7 21 | 25 12 44 |
| | ○ | { 10 12 1 | 10 20 8 | | ○ | { 9 1 43 | 8 12 16 |
| | NOV. . | { 25 6 23 | 24 21 44 | | SEPT. . | { 23 20 5 | 24 0 7 |
| | DEC. . | 24 19 7 | 24 15 35 | | OCT. . | 23 8 49 | 23 11 7 |
| | | | | | NOV. . | 21 21 33 | 21 22 0 |
| | | | | | DEC. . | 21 10 17 | 21 8 51 |
| 937. E.D. 30 3 58 | JAN. . | 23 7 52 | 23 10 12 | 934. A. 30 21 25 | JAN. . | 19 23 1 | 19 19 40 |
| | FEB. . | 21 20 36 | 22 4 9 | | FEB. . | 18 11 45 | 18 6 44 |
| | MAR. . | 22 9 20 | 22 20 14 | | ○ | { 5 6 7 | 5 20 5 |
| | APRIL . | 20 22 4 | 21 9 48 | | MAR. . | { 20 0 30 | 19 18 29 |
| | ○ | { 5 16 26 | 5 8 5 | | APRIL . | 18 13 14 | 18 7 18 |
| | MAY . | { 20 10 48 | 20 20 46 | | MAY . | 18 1 53 | 17 21 25 |
| | JUNE . | 18 23 32 | 19 5 47 | | JUNE . | 16 14 42 | 16 12 37 |
| | JULY . | 18 12 16 | 18 13 50 | | JULY . | 16 3 26 | 16 4 18 |
| | AUG. . | 17 1 0 | 16 21 53 | | AUG. . | { 14 16 10 | 14 19 43 |
| | SEPT. . | 15 13 44 | 15 6 50 | | ○ | { 29 10 32 | 28 22 3 |
| | OCT. . | 15 2 28 | 14 17 14 | | SEPT. . | 13 4 54 | 13 10 33 |
| | NOV. . | 13 15 12 | 13 5 23 | | OCT. . | 12 17 38 | 13 0 19 |
| | DEC. . | 13 3 56 | 12 19 33 | | NOV. . | 11 6 22 | 11 13 0 |
| | | | | | DEC. . | 10 19 6 | 11 0 38 |
| 936. C. 30 9 47 | JAN. . | 11 16 40 | 11 11 15 | 933. G.F. 30 3 14 | JAN. . | 9 7 50 | 9 11 16 |
| | FEB. . | 10 5 24 | 10 4 2 | | FEB. . | 7 20 34 | 7 21 1 |
| | MAR. . | { 11 18 9 | 11 21 3 | | MAR. . | 8 9 19 | 8 6 18 |
| | ○ | { 26 12 31 | 26 14 57 | | APRIL . | 6 22 3 | 6 15 46 |
| | APRIL . | 10 6 53 | 10 13 20 | | MAY . | 6 10 47 | 6 2 15 |
| | MAY . | 9 19 37 | 10 4 4 | | JUNE . | 4 23 31 | 4 14 29 |
| | JUNE . | 8 8 21 | 8 16 53 | | JULY . | 4 12 15 | 4 4 45 |
| | JULY . | 7 21 5 | 8 3 53 | | AUG. . | { 3 0 59 | 2 20 47 |
| | AUG. . | 6 9 49 | 6 13 42 | | ○ | { 17 19 21 | 17 13 24 |
| | SEPT. . | 4 22 33 | 4 23 8 | | SEPT. . | 1 13 43 | 1 13 52 |
| | OCT. . | 4 11 17 | 4 8 51 | | OCT. . | { 1 2 27 | 1 6 59 |
| | NOV. . | 3 0 1 | 2 19 19 | | NOV. . | { 30 15 11 | 30 23 10 |
| | DEC. . | { 2 12 45 | 2 6 41 | | DEC. . | 29 3 55 | 29 13 49 |
| | | ... | 31 18 59 | | | 28 16 39 | 29 2 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 932. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 929. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. March. d. h. m. 30 9 2 | JAN. . | 27 5 23 | 27 13 17 | B.A. March. d. h. m. 30 2 29 | JAN. . | 24 20 33 | 25 5 16 |
| | FEB. . | 25 18 7 | 25 22 26 | | FEB. . | 23 9 17 | 23 21 49 |
| | MAR. . | 27 6 51 | 27 6 30 | | MAR. . | 23 22 1 | 24 11 26 |
| | APRIL | 25 19 35 | 25 14 19 | | APRIL | 22 10 45 | 22 22 9 |
| | MAY . | 25 8 19 | 24 22 53 | | MAY . | 21 23 29 | 22 6 36 |
| | JUNE . | 23 21 3 | 23 9 16 | | JUNE . | 20 12 13 | 20 13 51 |
| | ○ | { 8 15 25 | 8 21 7 | | JULY . | 20 0 57 | 19 21 0 |
| | JULY . | { 23 9 47 | 22 22 9 | | AUG. . | 18 13 41 | 18 5 3 |
| | AUG. . | 21 22 31 | 21 13 44 | | SEPT. . | 17 2 25 | 16 14 52 |
| | SEPT. . | 20 11 15 | 20 7 27 | | OCT. . | 16 15 9 | 16 3 0 |
| | OCT. . | 19 23 59 | 20 2 9 | | NOV. . | 15 3 53 | 14 17 41 |
| | NOV. . | 18 12 43 | 18 20 24 | | DEC. . | 14 16 37 | 14 10 33 |
| | DEC. . | 18 1 27 | 18 12 58 | | | | |
| | ○ | { 1 19 49 | 1 12 41 | 928. | JAN. . | 13 5 21 | 13 4 45 |
| 931. | JAN. . | { 16 14 11 | 17 2 59 | G. | FEB. . | 11 18 5 | 11 22 59 |
| D. | FEB. . | 15 2 55 | 15 14 21 | 30 8 18 | MAR. . | 13 6 50 | 13 16 1 |
| 30 14 51 | MAR. . | 16 15 40 | 16 23 25 | | APRIL | { 11 19 34 | 12 6 50 |
| | APRIL | 15 4 24 | 15 6 55 | | ○ | { 26 13 56 | 26 6 58 |
| | MAY . | 14 17 8 | 14 13 49 | | MAY . | 11 8 18 | 11 19 4 |
| | JUNE . | { 13 5 52 | 12 21 9 | | JUNE . | 9 21 2 | 10 5 4 |
| | ○ | { 23 0 14 | 23 6 49 | | JULY . | 9 9 46 | 9 13 37 |
| | JULY . | 12 18 36 | 12 6 5 | | AUG. . | 7 22 30 | 7 21 45 |
| | AUG. . | 11 7 20 | 10 17 33 | | SEPT. . | 6 11 14 | 6 6 21 |
| | SEPT. . | 9 20 4 | 9 8 5 | | OCT. . | { 5 23 58 | 5 16 8 |
| | OCT. . | 9 8 43 | 9 1 26 | | ○ | { 20 18 20 | 20 23 8 |
| | NOV. . | 7 21 32 | 7 20 37 | | NOV. . | 4 12 42 | 4 3 30 |
| | DEC. . | { 7 10 16 | 7 16 4 | | DEC. . | 4 1 26 | 3 16 35 |
| | ○ | { 22 4 38 | 22 0 43 | | | | |
| 930. | JAN. . | 5 23 0 | 6 10 6 | 927. | JAN. . | 2 14 10 | { 2 7 21 |
| C. | FEB. . | 4 11 44 | 5 1 31 | F. | FEB. . | 1 2 54 | { 31 23 24 |
| 30 20 40 | MAR. . | 6 0 28 | 6 13 54 | 30 14 7 | MAR. . | 2 15 38 | 2 16 9 |
| | APRIL | 4 13 12 | 4 23 29 | | | { 1 4 22 | 1 8 43 |
| | MAY . | 4 1 56 | 4 7 6 | | APRIL ○ | { 15 22 44 | 15 22 25 |
| | JUNE . | { 2 14 40 | 2 13 47 | | | { 30 17 6 | 1 0 13 |
| | ○ | { 17 9 2 | 17 10 10 | | MAY . | 30 5 50 | 30 14 4 |
| | JULY . | { 2 3 24 | 1 20 48 | | JUNE . | 28 18 34 | 29 2 5 |
| | | { 31 16 8 | 31 4 47 | | JULY . | 28 7 18 | 28 12 33 |
| | AUG. . | 30 4 52 | 29 15 10 | | AUG. . | 26 20 2 | 26 22 25 |
| | SEPT. . | 28 17 36 | 28 4 26 | | SEPT. . | 25 8 46 | 25 8 10 |
| | OCT. . | 28 6 20 | 27 20 39 | | ○ | { 10 3 8 | 9 22 57 |
| | NOV. . | 26 19 4 | 26 15 9 | | OCT. . | { 24 21 30 | 24 18 21 |
| | DEC. . | 26 7 48 | 26 10 34 | | NOV. . | 23 10 14 | 23 5 21 |
| | | | | | DEC. . | 22 22 58 | 22 17 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 926. E. March. <i>d. h. m.</i> 30 19 55 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 923. A. March. <i>d. h. m.</i> 30 13 22 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 11 42 | 21 5 38 | | JAN. . | 18 2 52 | 18 12 25 |
| | FEB. . | 20 0 26 | 19 19 8 | | ○ | { 1 21 14 | 1 20 14 |
| | MAR. . | 21 13 11 | 21 9 38 | | FEB. . | { 16 15 36 | 16 22 10 |
| | ○ | { 5 7 33 | 5 15 30 | | MAR. . | 18 4 21 | 18 6 31 |
| | APRIL | { 20 1 55 | 20 0 52 | | APRIL | 16 17 5 | 16 14 10 |
| | MAY . | 19 14 39 | 19 16 20 | | MAY . | 16 5 49 | 15 22 4 |
| | JUNE . | 18 3 23 | 18 7 25 | | JUNE . | 14 18 33 | 14 7 20 |
| | JULY . | 17 16 7 | 17 21 33 | | JULY . | { 14 7 17 | 13 18 52 |
| | AUG. . | 16 4 51 | 16 10 34 | | ○ | { 29 1 39 | 29 5 25 |
| | SEPT. . | { 14 17 35 | 14 22 35 | | AUG. . | 12 20 1 | 12 9 12 |
| | ○ | { 29 11 57 | 28 23 55 | | SEPT. . | 11 8 45 | 11 2 4 |
| | OCT. . | 14 6 19 | 14 9 59 | | OCT. . | 10 21 29 | 10 20 37 |
| | NOV. . | 12 19 3 | 12 21 3 | | NOV. . | 9 10 13 | 9 15 27 |
| | DEC. . | 12 7 47 | 12 7 54 | | DEC. . | 8 22 57 | 9 9 7 |
| 925. D.C. | JAN. . | 10 20 31 | 10 18 35 | 922. G. | JAN. . | 7 11 41 | 8 0 29 |
| | FEB. . | { 9 9 15 | 9 5 15 | | FEB. . | 6 0 25 | 6 13 7 |
| | ○ | { 24 3 37 | 24 17 23 | 30 19 11 | MAR. . | 7 13 10 | 7 23 8 |
| 30 1 44 | MAR. . | 9 22 0 | 9 16 18 | | APRIL | 6 1 54 | 6 7 10 |
| | APRIL | 8 10 44 | 8 4 16 | | MAY . | 5 14 33 | 5 14 7 |
| | MAY . | 7 23 28 | 7 17 32 | | JUNE . | 4 3 22 | 3 21 2 |
| | JUNE . | 6 12 12 | 6 8 9 | | JULY . | 3 16 6 | 3 5 2 |
| | JULY . | 6 0 56 | 5 23 44 | | AUG. . | { 2 4 50 | 1 15 11 |
| | AUG. . | 4 13 40 | 4 15 36 | | ○ | { 31 17 34 | 31 4 13 |
| | SEPT. . | 3 2 24 | 3 7 5 | | SEPT. . | 30 6 18 | 29 20 19 |
| | OCT. . | 2 15 8 | 2 21 40 | | OCT. . | 29 19 2 | 29 14 50 |
| | NOV. . | { 1 3 52 | 1 11 8 | | NOV. . | 28 7 46 | 28 10 24 |
| | ○ | { 30 16 36 | 30 23 24 | | ○ | { 13 2 8 | 12 23 35 |
| | DEC. . | 30 5 20 | 30 10 30 | | DEC. . | { 27 20 30 | 28 5 21 |
| 924. H. | JAN. . | 28 18 4 | 28 20 30 | 921. F.E. | JAN. . | 26 9 14 | 26 22 9 |
| | ○ | { 12 12 26 | 12 20 31 | | FEB. . | 24 21 58 | 25 11 59 |
| | FEB. . | { 27 6 43 | 27 5 42 | 30 1 0 | MAR. . | 25 10 42 | 25 22 47 |
| 30 7 33 | MAR. . | 28 19 32 | 28 14 44 | | APRIL | 23 23 26 | 24 7 10 |
| | APRIL | 27 8 16 | 27 0 23 | | MAY . | 23 12 10 | 23 14 12 |
| | MAY . | 26 21 0 | 26 11 30 | | ○ | { 7 6 32 | 7 5 41 |
| | JUNE . | 25 9 44 | 25 0 41 | | JUNE . | { 22 0 54 | 21 20 52 |
| | JULY . | 24 22 28 | 24 15 57 | | JULY . | 21 13 38 | 21 4 19 |
| | ○ | { 8 16 50 | 8 13 18 | | AUG. . | 20 2 22 | 19 13 31 |
| | AUG. . | { 23 11 12 | 23 8 49 | | SEPT. . | 18 15 6 | 18 1 26 |
| | SEPT. . | 21 23 56 | 22 2 13 | | OCT. . | 18 3 50 | 17 16 16 |
| | OCT. . | 21 12 40 | 21 19 19 | | NOV. . | 16 16 31 | 16 9 44 |
| | NOV. . | 20 1 24 | 20 10 59 | | ○ | { 1 10 56 | 1 15 20 |
| | DEC. . | 19 14 8 | 20 0 45 | | DEC. . | { 16 5 18 | 16 4 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 920. D. March. d. h. m. 30 6 48 | | d. h. m. | d. h. m. | B.C. 917. A.G. March. d. h. m. 30 0 15 | | d. h. m. | d. h. m. |
| | JAN. . | 14 18 2 | 14 23 57 | | JAN. . | 12 9 12 | 12 3 28 |
| | FEB. . | 13 6 46 | 13 17 37 | | FEB. . | 10 21 56 | 10 16 12 |
| | MAR.. | 14 19 31 | 15 8 40 | | MAR.. | { 11 10 41 | 11 5 55 |
| | APRIL | 13 8 15 | 13 20 44 | | ○ | { 26 5 3 | 26 15 16 |
| | MAY . | { 12 20 59 | 13 6 13 | | APRIL | 9 23 25 | 9 20 33 |
| | ○ | { 27 15 21 | 27 7 17 | | MAY . | 9 12 9 | 9 11 51 |
| | JUNE . | 11 9 43 | 11 14 1 | | JUNE . | 8 0 53 | 8 3 13 |
| | JULY . | 10 22 27 | 10 21 12 | | JULY . | 7 13 37 | 7 18 1 |
| | AUG. . | 9 11 11 | 9 4 49 | | AUG. . | 6 2 21 | 6 7 52 |
| | SEPT. . | 7 23 55 | 7 13 49 | | SEPT. . | { 4 15 5 | 4 20 38 |
| | OCT. . | 7 12 39 | 7 0 51 | | ○ | { 19 9 27 | 18 20 6 |
| | NOV. . | { 6 1 23 | 5 14 17 | | OCT. . | 4 3 49 | 4 8 35 |
| | ○ | { 20 19 45 | 21 4 50 | | NOV. . | 2 16 33 | 2 20 0 |
| | DEC. . | 5 14 7 | 5 6 1 | | DEC. . | { 2 5 17 | 2 7 0 |
| | | | | | | { 31 18 1 | 31 17 41 |
| 919. C. 30 12 37 | JAN. . | 4 2 51 | 3 23 30 | 916. F. | JAN. . | 30 6 45 | 30 4 6 |
| | FEB. . | 2 15 35 | 2 17 42 | | FEB. . | 28 19 29 | 28 14 37 |
| | MAR.. | 4 4 20 | 4 11 18 | | ○ | { 15 13 51 | 16 3 35 |
| | APRIL | 2 17 4 | 3 3 11 | 30 6 4 | MAR.. | { 30 8 13 | 30 1 46 |
| | | { 2 5 43 | 2 16 42 | | APRIL | 28 20 57 | 28 14 6 |
| | MAY ○ | { 17 0 10 | 16 15 12 | | MAY . | 28 9 41 | 28 3 55 |
| | | { 31 18 32 | { 1 3 50 | | JUNE . | 26 22 25 | 26 19 6 |
| | JUNE . | 30 7 16 | { 30 13 9 | | JULY . | 26 11 9 | 26 11 5 |
| | JULY . | 29 20 0 | 29 21 34 | | AUG. . | 24 23 53 | 25 3 6 |
| | AUG. . | 28 8 44 | 28 6 2 | | ○ | { 8 18 15 | 8 6 9 |
| | SEPT. . | 26 21 28 | 26 15 21 | | SEPT. . | { 23 12 37 | 23 18 28 |
| | OCT. . | 26 10 12 | 26 1 59 | | OCT. . | 23 1 21 | 23 8 46 |
| | NOV. . | 24 22 56 | 24 14 12 | | NOV. . | 21 14 5 | 21 21 48 |
| | DEC. . | 24 11 40 | 24 3 59 | | DEC. . | 21 2 49 | 21 9 31 |
| 918. B. 30 18 26 | JAN. . | 23 0 24 | 22 19 12 | 915. E. | JAN. . | 19 15 33 | 19 19 54 |
| | FEB. . | 21 13 8 | 21 11 24 | 30 11 52 | FEB. . | 18 4 17 | 18 5 17 |
| | MAR.. | 23 1 52 | 23 3 56 | | MAR.. | 19 17 2 | 19 14 5 |
| | APRIL | 21 14 36 | 21 19 57 | | APRIL | 18 5 46 | 17 23 6 |
| | MAY . | 21 3 20 | 21 10 41 | | MAY . | 17 18 30 | 17 9 11 |
| | JUNE . | 19 16 4 | 19 23 44 | | JUNE . | 16 7 14 | 15 21 11 |
| | JULY . | 19 4 43 | 19 11 11 | | JULY . | 15 19 58 | 15 11 28 |
| | AUG. . | 17 17 32 | 17 21 31 | | AUG. . | { 14 8 42 | 14 3 45 |
| | SEPT. . | 16 6 16 | 16 7 28 | | ○ | { 29 3 4 | 28 21 38 |
| | OCT. . | 15 19 0 | 15 17 36 | | SEPT. . | 12 21 26 | 12 21 15 |
| | NOV. . | 14 7 44 | 14 4 15 | | OCT. . | 12 10 10 | 12 14 53 |
| | DEC. . | 13 20 28 | 13 15 32 | | NOV. . | 10 22 54 | 11 7 33 |
| | | | | | DEC. . | 10 11 33 | 10 22 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 914. D. March. d. h. m. 30 17 41 | | d. h. m. | d. h. m. | B.C. 911. G. March. d. h. m. 30 11 8 | | d. h. m. | d. h. m. |
| | JAN. . | 9 0 22 | 9 11 9 | | JAN. . | 5 15 32 | 5 18 23 |
| | FEB. . | 7 13 6 | 7 21 41 | | FEB. . | 4 4 16 | 4 12 49 |
| | MAR. . | 9 1 51 | 9 6 30 | | MAR. . | 5 17 1 | 6 5 10 |
| | APRIL | 7 14 35 | 7 14 12 | | APRIL | 4 5 45 | 4 18 40 |
| | MAY . | 7 3 19 | 6 21 42 | | MAY . | 3 18 29 | 4 5 22 |
| | JUNE . | 5 16 3 | 5 6 4 | | JUNE . | 2 7 12 | 2 13 54 |
| | JULY . | { 5 4 47 | 4 16 18 | | JULY . | { 1 19 55 | 1 21 20 |
| | ○ | { 19 23 9 | 20 4 35 | | | { 31 8 39 | 31 4 46 |
| | AUG. . | 3 17 31 | 3 5 15 | | AUG. . | 29 21 23 | 29 18 9 |
| | SEPT. . | 2 6 15 | 1 21 1 | | SEPT. . | 28 10 7 | 27 23 14 |
| | OCT. . | { 1 18 59 | 1 15 2 | | OCT. . | 27 22 51 | 27 11 30 |
| | | { 31 7 43 | 31 10 5 | | NOV. . | 26 11 35 | 26 2 4 |
| | NOV. . | 29 20 27 | 30 4 37 | | DEC. . | 26 0 19 | 25 18 37 |
| | DEC. . | 29 9 11 | 29 21 17 | | | | |
| 913. C.H. | ○ | { 13 3 33 | 12 21 1 | 910. F. | JAN. . | 24 13 3 | 24 12 22 |
| | JAN. . | { 27 21 55 | 28 11 16 | | FEB. . | 23 1 48 | 23 6 13 |
| | FEB. . | 26 10 39 | 26 22 25 | 30 16 57 | MAR. . | 24 14 33 | 24 22 57 |
| 29 23 30 | MAR. . | 26 23 23 | 27 7 13 | | APRIL | 23 3 17 | 23 13 38 |
| | APRIL | 25 12 7 | 25 14 29 | | ○ | { 7 21 39 | 7 14 13 |
| | MAY . | 25 0 51 | 24 21 13 | | MAY . | { 22 16 1 | 23 1 59 |
| | JUNE . | 23 13 35 | 23 4 30 | | JUNE . | 21 4 45 | 21 12 15 |
| | ○ | { 8 7 57 | 8 14 5 | | JULY . | 20 17 29 | 20 21 10 |
| | JULY . | { 23 2 19 | 22 13 29 | | AUG. . | 19 6 13 | 19 5 45 |
| | AUG. . | 21 15 3 | 21 1 5 | | SEPT. . | 17 13 57 | 17 14 46 |
| | SEPT. . | 20 3 47 | 19 15 46 | | OCT. . | 17 7 41 | 17 0 50 |
| | OCT. . | 19 16 31 | 19 9 15 | | ○ | { 1 2 3 | 1 7 10 |
| | NOV. . | 18 5 15 | 18 4 33 | | NOV. . | { 15 20 25 | 15 12 18 |
| | DEC. . | 17 17 59 | 18 0 2 | | DEC. . | 15 9 9 | 15 1 11 |
| 912. A. | ○ | { 1 12 21 | 1 9 29 | 909. E.D. | JAN. . | 13 21 53 | 13 15 29 |
| | JAN. . | { 16 6 43 | 16 13 2 | | FEB. . | 12 10 37 | 12 6 59 |
| | FEB. . | 14 19 27 | 15 9 19 | 29 22 45 | MAR. . | 12 23 22 | 12 23 10 |
| 30 5 19 | MAR. . | 16 8 12 | 16 21 32 | | APRIL | { 11 12 6 | 11 15 23 |
| | APRIL | 14 20 56 | 15 6 59 | | ○ | { 26 6 23 | 26 5 58 |
| | MAY . | 14 9 40 | 14 14 31 | | MAY . | 11 0 50 | 11 6 46 |
| | JUNE . | { 12 22 24 | 12 21 15 | | JUNE . | 9 13 34 | 9 20 48 |
| | ○ | { 27 16 46 | 27 16 41 | | JULY . | 9 2 18 | 9 9 12 |
| | JULY . | 12 11 8 | 12 4 14 | | AUG. . | 7 15 2 | 7 20 16 |
| | AUG. . | 10 23 52 | 10 12 35 | | SEPT. . | 6 3 46 | 6 6 36 |
| | SEPT. . | 9 12 36 | 8 23 10 | | OCT. . | { 5 16 30 | 5 16 49 |
| | OCT. . | 9 1 20 | 8 12 34 | | ○ | { 20 10 52 | 20 6 44 |
| | NOV. . | 7 14 4 | 7 4 48 | | NOV. . | 4 5 14 | 4 3 19 |
| | DEC. . | 7 2 48 | 6 23 10 | | DEC. . | 3 17 58 | 3 14 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 908. c. | | | | B.C. 905. G.F. | | | |
| March. | JAN. . | { 2 6 42 | 2 1 44 | March. | JAN. . | 29 10 36 | 29 20 53 |
| <i>d. h. m.</i> | | { 31 19 26 | 31 13 48 | <i>d. h. m.</i> | ○ | { 13 4 58 | 13 3 42 |
| 30 4 34 | FEB. . | ... | ... | | FEB. . | { 27 23 21 | 28 6 22 |
| | MAR. . | { 2 8 11 | 2 2 43 | | MAR. . | 28 12 5 | 28 14 20 |
| | ○ | { 31 20 55 | 31 16 36 | | APRIL | 27 0 49 | 26 21 39 |
| | APRIL | { 15 15 17 | 15 23 6 | | MAY . | 26 13 33 | 26 5 19 |
| | MAY . | { 30 9 39 | 30 7 26 | | JUNE . | 25 2 17 | 24 14 27 |
| | JUNE . | 29 22 23 | 29 22 46 | | JULY . | 24 15 1 | 24 1 59 |
| | JULY . | 28 11 7 | 28 14 3 | | ○ | { 8 9 23 | 8 13 10 |
| | AUG. . | 27 23 51 | 28 4 37 | | AUG. . | { 23 3 45 | 22 16 26 |
| | SEPT. . | 26 12 35 | 26 18 12 | | SEPT. . | 21 16 29 | 21 9 34 |
| | SEPT. . | 25 1 19 | 25 6 50 | | OCT. . | 21 5 13 | 21 4 26 |
| | ○ | { 9 19 41 | 9 7 54 | | NOV. . | 19 17 57 | 19 23 33 |
| | OCT. . | { 24 14 3 | 24 18 43 | | DEC. . | 19 6 41 | 19 17 22 |
| | NOV. . | 23 2 47 | 23 6 2 | | | | |
| | DEC. . | 22 15 31 | 22 16 50 | 904. E. | JAN. . | 17 19 25 | 18 8 44 |
| 907. B. | JAN. . | 21 4 15 | 21 3 11 | | FEB. . | 16 8 9 | 16 21 12 |
| 30 10 23 | FEB. . | 19 16 59 | 19 13 22 | 30 3 50 | MAR. . | 17 20 53 | 18 6 59 |
| | MAR. . | 21 5 43 | 20 23 50 | | APRIL | 16 9 37 | 16 14 47 |
| | APRIL | 19 18 27 | 19 11 15 | | MAY . | 15 22 21 | 15 21 35 |
| | MAY . | 19 7 11 | 19 0 8 | | JUNE . | 14 11 5 | 14 4 25 |
| | JUNE . | 17 19 55 | 17 14 33 | | JULY . | 13 23 49 | 13 12 27 |
| | JULY . | 17 8 39 | 17 6 24 | | AUG. . | 12 12 33 | 11 22 43 |
| | AUG. . | 15 21 23 | 15 22 41 | | SEPT. . | 11 1 17 | 10 11 54 |
| | SEPT. . | 14 10 7 | 14 14 45 | | OCT. . | 10 14 1 | 10 4 8 |
| | OCT. . | 13 22 51 | 14 5 55 | | NOV. . | 9 2 45 | 8 22 45 |
| | NOV. . | 12 11 35 | 12 19 49 | | DEC. . | { 8 15 29 | 8 18 23 |
| | DEC. . | 12 0 19 | 12 8 15 | | ○ | { 23 9 51 | 23 8 26 |
| 906. A. | JAN. . | 10 13 3 | 10 19 13 | 903. D. | JAN. . | 7 4 13 | 7 13 16 |
| 30 16 12 | FEB. . | { 9 1 47 | 9 4 54 | 30 9 38 | FEB. . | 5 16 57 | 6 5 57 |
| | ○ | { 23 20 9 | 24 3 48 | | MAR. . | 7 5 42 | 7 19 33 |
| | MAR. . | 10 14 32 | 10 13 42 | | APRIL | 5 13 26 | 6 6 19 |
| | APRIL | 9 3 16 | 8 22 15 | | MAY . | 5 7 10 | 5 14 33 |
| | MAY . | 8 16 0 | 8 7 30 | | JUNE . | { 3 19 54 | 3 21 39 |
| | JUNE . | 7 4 44 | 6 18 21 | | ○ | { 18 14 16 | 18 12 8 |
| | JULY . | 6 17 23 | 6 7 27 | | JULY . | 3 8 33 | 3 4 25 |
| | AUG. . | { 5 6 12 | 4 22 51 | | AUG. . | { 1 21 22 | 1 12 4 |
| | ○ | { 20 0 34 | 19 21 21 | | SEPT. . | { 31 10 6 | 30 21 34 |
| | SEPT. . | 3 13 56 | 3 16 3 | | OCT. . | 29 22 50 | 29 9 36 |
| | OCT. . | 3 7 40 | 3 10 0 | | NOV. . | 29 11 34 | 29 0 29 |
| | NOV. . | 1 20 24 | 2 3 30 | | NOV. . | 28 0 18 | 27 17 51 |
| | DEC. . | { 1 9 8 | 1 19 31 | | ○ | { 12 18 40 | 13 0 16 |
| | | { 30 21 52 | 31 9 22 | | DEC. . | { 27 13 2 | 27 12 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 902. C. March. d. h. m. 20 15 27 | | d. h. m. | d. h. m. | B.C. 899. F. March. d. h. m. 30 8 54 | | d. h. m. | d. h. m. |
| | JAN. . | 26 1 46 | 26 7 34 | | JAN. . | 22 16 56 | 22 11 52 |
| | FEB. . | 24 14 31 | 25 1 0 | | FEB. . | 21 5 40 | 21 0 2 |
| | MAR. . | 26 3 15 | 26 15 53 | | MAR. . | 22 18 24 | 22 13 6 |
| | APRIL | 24 15 59 | 25 3 54 | | ○ | { 6 12 46 | 6 22 52 |
| | MAY . | 24 4 43 | 24 13 28 | | APRIL | { 21 7 8 | 21 3 15 |
| | ○ | { 7 23 5 | 7 13 53 | | MAY . | 20 19 52 | 20 18 18 |
| | JUNE . | { 22 17 27 | 22 21 25 | | JUNE . | 19 8 36 | 19 9 42 |
| | JULY . | 22 6 11 | 22 4 54 | | JULY . | 18 21 20 | 19 0 53 |
| | AUG. . | 20 18 53 | 20 12 52 | | AUG. . | 17 10 4 | 17 15 14 |
| | SEPT. . | 19 7 39 | 18 22 11 | | SEPT. . | { 15 22 48 | 16 4 38 |
| | OCT. . | 18 20 23 | 18 9 24 | | ○ | { 30 17 10 | 30 4 6 |
| | NOV. . | 17 9 7 | 16 22 49 | | OCT. . | 15 11 32 | 15 17 8 |
| | ○ | { 2 3 29 | 2 13 30 | | NOV. . | 14 0 16 | 14 4 51 |
| | DEC. . | { 16 21 51 | 16 14 18 | | DEC. . | 13 13 0 | 13 15 56 |
| 901. B.A. 29 21 16 | | | | 898. E. 30 14 43 | | | |
| | JAN. . | 15 10 35 | 15 7 22 | | JAN. . | 12 1 44 | 12 2 23 |
| | FEB. . | 13 23 19 | 14 1 3 | | FEB. . | 10 14 28 | 10 12 24 |
| | MAR. . | 14 12 3 | 14 18 16 | | MAR. . | { 12 3 13 | 11 22 24 |
| | APRIL | 13 0 47 | 13 9 53 | | ○ | { 26 21 36 | 27 10 53 |
| | MAY . | { 12 13 31 | 12 23 31 | | APRIL | 10 15 57 | 10 8 59 |
| | ○ | { 27 7 53 | 26 22 19 | | MAY . | 10 4 41 | 9 20 53 |
| | JUNE . | 11 2 15 | 11 10 52 | | JUNE . | 8 17 25 | 8 10 29 |
| | JULY . | 10 14 59 | 10 20 32 | | JULY . | 8 6 9 | 8 1 42 |
| | AUG. . | 9 3 43 | 9 5 24 | | AUG. . | 6 18 53 | 6 17 59 |
| | SEPT. . | 7 16 27 | 7 14 19 | | SEPT. . | { 5 7 37 | 5 10 31 |
| | OCT. . | 7 5 11 | 7 0 0 | | ○ | { 20 1 59 | 19 14 26 |
| | NOV. . | 5 17 55 | 5 10 49 | | OCT. . | 4 20 21 | 5 2 30 |
| | DEC. . | 5 6 39 | 4 22 55 | | NOV. . | 3 9 5 | 3 17 18 |
| 900. G. 30 3 5 | | | | 897. D.C. 29 20 31 | | | |
| | JAN. . | 3 19 23 | 3 12 21 | | JAN. . | { 1 10 33 | 1 18 18 |
| | FEB. . | 2 8 7 | 2 3 0 | | ○ | { 30 23 17 | 31 4 23 |
| | MAR. . | 3 20 52 | 3 18 38 | | FEB. . | 29 12 2 | 29 13 27 |
| | APRIL | 2 9 36 | 2 10 41 | | MAR. . | 30 0 46 | 29 21 48 |
| | MAY . | { 1 22 20 | 2 2 29 | | APRIL | 28 13 30 | 28 6 23 |
| | ○ | { 31 11 4 | 31 17 17 | | MAY . | 28 2 14 | 27 16 9 |
| | JUNE . | 29 23 48 | 30 6 39 | | JUNE . | 26 14 58 | 26 4 0 |
| | JULY . | 29 12 32 | 29 18 35 | | JULY . | 26 3 42 | 25 18 18 |
| | AUG. . | 28 1 16 | 28 5 29 | | AUG. . | 24 16 26 | 24 10 51 |
| | SEPT. . | 26 14 0 | 26 15 56 | | ○ | { 8 10 48 | 8 5 52 |
| | OCT. . | 26 2 44 | 26 2 27 | | SEPT. . | { 23 5 10 | 23 4 47 |
| | NOV. . | 24 15 28 | 24 13 13 | | OCT. . | 22 17 54 | 22 22 53 |
| | DEC. . | 24 4 12 | 24 0 21 | | NOV. . | 21 6 38 | 21 15 56 |
| | | | | | DEC. . | 20 19 22 | 21 7 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 908. c. | | | | B.C. 905. G.F. March. <i>d. h. m.</i> 29 22 1 | | | |
| March. <i>d. h. m.</i> 30 4 34 | JAN. . | { 2 6 42 31 19 26 | 2 1 44 31 13 48 | | JAN. . | 29 10 36 | 29 20 53 |
| | FEB. . | ... | ... | | ○ | { 13 4 58 | 13 3 42 |
| | MAR. . | { 2 8 11 31 20 55 | 2 2 43 31 16 36 | | FEB. . | { 27 23 21 | 28 6 22 |
| | ○ | { 15 15 17 | 15 23 6 | | MAR. . | 28 12 5 | 28 14 20 |
| | APRIL | { 30 9 39 | 30 7 26 | | APRIL | 27 0 49 | 26 21 39 |
| | MAY . | 29 22 23 | 29 22 46 | | MAY . | 26 13 38 | 26 5 19 |
| | JUNE . | 28 11 7 | 28 14 3 | | JUNE . | 25 2 17 | 24 14 27 |
| | JULY . | 27 23 51 | 28 4 37 | | JULY . | 24 15 1 | 24 1 59 |
| | AUG. . | 26 12 35 | 26 18 12 | | ○ | { 8 9 23 | 8 13 10 |
| | SEPT. . | 25 1 19 | 25 6 50 | | AUG. . | { 23 3 45 | 22 16 26 |
| | ○ | { 9 19 41 | 9 7 54 | | SEPT. . | 21 16 29 | 21 9 34 |
| | OCT. . | { 24 14 3 | 24 18 43 | | OCT. . | 21 5 13 | 21 4 26 |
| | NOV. . | 23 2 47 | 23 6 2 | | NOV. . | 19 17 57 | 19 23 33 |
| | DEC. . | 22 15 31 | 22 16 50 | | DEC. . | 19 6 41 | 19 17 22 |
| 907. B. | JAN. . | 21 4 15 | 21 3 11 | 904. E. | JAN. . | 17 19 25 | 18 8 44 |
| 30 10 23 | FEB. . | 19 16 59 | 19 13 22 | 30 3 50 | FEB. . | 16 8 9 | 16 21 12 |
| | MAR. . | 21 5 43 | 20 23 50 | | MAR. . | 17 20 53 | 18 6 59 |
| | APRIL | 19 18 27 | 19 11 15 | | APRIL | 16 9 37 | 16 14 47 |
| | MAY . | 19 7 11 | 19 0 8 | | MAY . | 15 22 21 | 15 21 35 |
| | JUNE . | 17 19 55 | 17 14 33 | | JUNE . | 14 11 5 | 14 4 25 |
| | JULY . | 17 8 39 | 17 6 24 | | JULY . | 13 23 49 | 13 12 27 |
| | AUG. . | 15 21 23 | 15 22 41 | | AUG. . | 12 12 33 | 11 22 43 |
| | SEPT. . | 14 10 7 | 14 14 45 | | SEPT. . | 11 1 17 | 10 11 54 |
| | OCT. . | 13 22 51 | 14 5 55 | | OCT. . | 10 14 1 | 10 4 8 |
| | NOV. . | 12 11 35 | 12 19 49 | | NOV. . | 9 2 45 | 8 22 45 |
| | DEC. . | 12 0 19 | 12 8 15 | | DEC. . | { 8 15 29 | 8 18 23 |
| 906. A. | JAN. . | 10 13 3 | 10 19 13 | 903. D. | JAN. . | 7 4 13 | 7 13 16 |
| 30 16 12 | FEB. . | { 9 1 47 | 9 4 54 | 30 9 38 | FEB. . | 5 16 57 | 6 5 57 |
| | ○ | { 23 20 9 | 24 3 43 | | MAR. . | 7 5 42 | 7 19 38 |
| | MAR. . | 10 14 32 | 10 13 42 | | APRIL | 5 18 26 | 6 6 19 |
| | APRIL | 9 3 16 | 8 22 15 | | MAY . | 5 7 10 | 5 14 38 |
| | MAY . | 8 16 0 | 8 7 30 | | JUNE . | { 3 19 54 | 3 21 39 |
| | JUNE . | 7 4 44 | 6 18 21 | | ○ | { 18 14 16 | 18 12 8 |
| | JULY . | 6 17 28 | 6 7 27 | | JULY . | 3 8 38 | 3 4 25 |
| | AUG. . | { 5 6 12 | 4 22 51 | | AUG. . | { 1 21 22 | 1 12 4 |
| | ○ | { 20 0 34 | 19 21 21 | | SEPT. . | { 31 10 6 | 30 21 34 |
| | SEPT. . | 3 18 56 | 3 16 3 | | OCT. . | 29 22 50 | 29 9 36 |
| | OCT. . | 3 7 40 | 3 10 0 | | NOV. . | 28 0 18 | 27 17 51 |
| | NOV. . | 1 20 24 | 2 3 30 | | ○ | { 12 18 40 | 13 0 16 |
| | DEC. . | { 1 9 8 | 1 19 31 | | DEC. . | { 27 13 2 | 27 12 42 |
| | | { 30 21 52 | 31 9 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|-----------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 896. B. March. <i>d. h. m.</i> 30 2 20 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 893. F.E. March. <i>d. h. m.</i> 29 19 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 19 8 6 | 19 19 39 | | JAN. . | 16 23 16 | 17 2 5 |
| | FEB. . | 17 20 50 | 18 5 57 | | FEB. . | 15 12 0 | 15 20 13 |
| | MAR. . | 19 9 34 | 19 14 25 | | MAR. . | 16 0 44 | 16 12 20 |
| | APRIL | 17 22 18 | 17 21 48 | | APRIL | 14 13 28 | 15 1 45 |
| | MAY . | 17 11 2 | 17 5 2 | | MAY . | 14 2 12 | 14 12 30 |
| | JUNE . | 15 23 46 | 15 13 14 | | JUNE . | 12 14 56 | 12 21 13 |
| | JULY . | { 15 12 30 | 14 23 28 | | JULY . | 12 3 40 | 12 4 57 |
| | ○ | { 30 6 52 | 30 12 7 | | AUG. . | 10 16 24 | 10 12 44 |
| | AUG. . | 14 1 14 | 13 12 28 | | SEPT. . | 9 5 8 | 8 21 28 |
| | SEPT. . | 12 13 58 | 12 4 26 | | OCT. . | 8 17 52 | 8 7 48 |
| | OCT. . | 12 2 42 | 11 22 48 | | NOV. . | 7 6 26 | 6 20 8 |
| | NOV. . | 10 15 26 | 10 18 2 | | DEC. . | 6 19 20 | 6 10 32 |
| | DEC. . | 10 4 10 | 10 12 46 | | | | |
| 895. A. 30 8 9 | JAN. . | { 8 16 54 | 9 5 28 | 892. D. 30 1 36 | JAN. . | 5 8 4 | 5 2 41 |
| | ○ | { 23 11 16 | 23 5 15 | | FEB. . | 3 20 43 | 3 19 56 |
| | FEB. . | 7 5 38 | 7 19 21 | | MAR. . | 5 9 33 | 5 13 20 |
| | MAR. . | 8 18 23 | 9 6 20 | | APRIL | 3 22 17 | 4 5 45 |
| | APRIL | 7 7 7 | 7 14 54 | | MAY . | { 3 11 1 | 3 20 24 |
| | MAY . | 6 19 51 | 6 21 58 | | ○ | { 18 5 23 | 17 21 27 |
| | JUNE . | 5 8 35 | 5 4 38 | | JUNE . | 1 23 45 | 2 8 54 |
| | JULY . | { 4 21 19 | 4 11 57 | | JULY . | { 1 12 29 | 1 19 29 |
| | ○ | { 19 15 41 | 19 21 5 | | | { 31 1 13 | 31 4 51 |
| | AUG. . | 3 10 3 | 2 21 3 | | AUG. . | 29 13 57 | 29 13 54 |
| | SEPT. . | 1 22 47 | { 1 8 47 | | SEPT. . | 28 2 41 | 27 23 20 |
| | | | { 30 23 36 | | OCT. . | 27 15 25 | 27 9 39 |
| | OCT. . | { 1 11 31 | 30 17 13 | | ○ | { 11 9 47 | 11 15 15 |
| | | { 31 0 15 | 30 12 32 | | NOV. . | { 26 4 9 | 25 21 8 |
| | NOV. . | 29 12 59 | 29 7 57 | | DEC. . | 25 16 53 | 25 9 45 |
| | DEC. . | 29 1 43 | | | | | |
| 894. G. 30 13 58 | ○ | { 12 20 5 | 12 18 10 | 891. C. 30 7 24 | JAN. . | 24 5 37 | 23 23 34 |
| | JAN. . | { 27 14 27 | 23 1 49 | | FEB. . | 22 18 21 | 22 14 26 |
| | FEB. . | 26 3 11 | 26 16 58 | | MAR. . | 24 7 6 | 24 6 6 |
| | MAR. . | 27 15 56 | 28 4 3 | | APRIL | 22 19 50 | 22 21 57 |
| | APRIL | 26 4 40 | 26 14 24 | | ○ | { 7 14 12 | 7 13 28 |
| | MAY . | 25 17 24 | 25 21 56 | | MAY . | { 22 8 34 | 22 13 18 |
| | JUNE . | 24 6 8 | 24 4 45 | | JUNE . | 20 21 18 | 21 3 32 |
| | ○ | { 9 0 30 | 8 23 18 | | JULY . | 20 10 2 | 20 16 22 |
| | JULY . | { 23 18 52 | 23 11 56 | | AUG. . | 18 22 46 | 19 4 0 |
| | AUG. . | 22 7 36 | 21 20 32 | | SEPT. . | 17 11 30 | 17 14 54 |
| | SEPT. . | 20 20 20 | 20 7 20 | | OCT. . | { 17 0 14 | 17 1 34 |
| | OCT. . | 20 9 4 | 19 20 50 | | ○ | { 31 18 36 | 31 14 38 |
| | NOV. . | 18 21 48 | 18 13 1 | | NOV. . | 15 12 58 | 15 12 16 |
| | DEC. . | 18 10 32 | 18 7 11 | | DEC. . | 15 1 42 | 14 23 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 890. B. March. <i>d. h. m.</i> 30 13 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 887. E. March. <i>d. h. m.</i> 30 6 39 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 14 26 | 13 10 19 | | JAN. . | 10 5 36 | 10 17 52 |
| | FEB. . | 12 3 10 | 11 21 52 | | FEB. . | 8 18 20 | 9 5 14 |
| | MAR. . | 13 15 54 | 13 10 9 | | ○ | 23 12 42 | 23 11 2 |
| | APRIL | 12 4 38 | 11 23 28 | | MAR. . | 10 7 4 | 10 14 23 |
| | ○ | 26 23 0 | 27 6 35 | | APRIL | 8 19 48 | 8 22 2 |
| | MAY . | 11 17 22 | 11 13 57 | | MAY . | 8 8 32 | 8 5 5 |
| | JUNE . | 10 6 6 | 10 5 13 | | JUNE . | 6 21 16 | 6 12 35 |
| | JULY . | 9 18 50 | 9 20 42 | | JULY . | 6 10 0 | 5 21 40 |
| | AUG. . | 8 7 34 | 8 11 45 | | AUG. . | 4 22 44 | 4 9 14 |
| | SEPT. . | 6 20 18 | 7 1 57 | | ○ | 19 17 6 | 19 21 2 |
| | OCT. . | 6 9 2 | 6 15 11 | | SEPT. . | 3 11 28 | 2 23 50 |
| | ○ | 21 3 24 | 20 15 59 | | OCT. . | 3 0 12 | 2 17 11 |
| | NOV. . | 4 21 46 | 5 3 29 | | NOV. . | 1 12 56 | 1 12 19 |
| | DEC. . | 4 10 30 | 4 14 57 | | DEC. . | 1 1 40 | 1 7 46 |
| | | | | | | 30 14 24 | 31 1 30 |
| 889. A.G. 29 19 2 | JAN. . | 2 23 14 | 3 1 30 | 883. D. 30 12 28 | JAN. . | 29 3 8 | 29 16 49 |
| | FEB. . | 1 11 58 | 1 11 40 | | FEB. . | 27 15 52 | 28 5 7 |
| | MAR. . | 2 0 43 | 1 21 21 | | MAR. . | 29 4 37 | 29 14 43 |
| | APRIL | 31 13 27 | 31 7 17 | | APRIL | 27 17 21 | 27 22 19 |
| | MAY . | 30 2 11 | 29 18 13 | | MAY . | 27 6 5 | 27 5 1 |
| | JUNE . | 29 14 55 | 29 6 47 | | JUNE . | 25 18 49 | 25 11 53 |
| | JULY . | 28 3 39 | 27 21 12 | | JULY . | 25 7 33 | 24 20 1 |
| | AUG. . | 27 16 23 | 27 13 9 | | AUG. . | 23 20 17 | 23 6 25 |
| | SEPT. . | 26 5 7 | 26 5 54 | | SEPT. . | 22 9 1 | 21 19 46 |
| | OCT. . | 24 17 51 | 24 22 31 | | OCT. . | 21 21 45 | 21 12 7 |
| | NOV. . | 24 6 35 | 24 14 15 | | NOV. . | 20 10 29 | 20 6 45 |
| | DEC. . | 22 19 19 | 23 4 30 | | DEC. . | 19 23 13 | 20 2 18 |
| | | 22 8 3 | 22 17 2 | | | | |
| 888. F. 30 0 51 | JAN. . | 20 20 47 | 21 3 52 | 885. C.B. 29 18 17 | ○ | 3 17 35 | 3 17 15 |
| | FEB. . | 19 9 31 | 19 13 13 | | JAN. . | 18 11 57 | 18 21 3 |
| | ○ | 6 3 53 | 6 10 55 | | FEB. . | 17 0 41 | 17 13 34 |
| | MAR. . | 20 22 16 | 20 21 35 | | MAR. . | 17 13 25 | 18 3 6 |
| | APRIL | 19 11 0 | 19 5 42 | | APRIL | 16 2 9 | 16 13 40 |
| | MAY . | 18 23 44 | 18 14 36 | | MAY . | 15 14 53 | 15 21 59 |
| | JUNE . | 17 12 28 | 17 1 15 | | JUNE . | 14 3 37 | 14 5 4 |
| | JULY . | 17 1 12 | 16 14 17 | | JULY . | 13 16 21 | 13 12 3 |
| | AUG. . | 15 13 56 | 15 5 53 | | AUG. . | 12 5 5 | 11 19 58 |
| | ○ | 30 8 18 | 30 5 32 | | SEPT. . | 10 17 49 | 10 5 42 |
| | SEPT. . | 14 2 40 | 13 23 25 | | OCT. . | 10 6 33 | 9 17 53 |
| | OCT. . | 13 15 24 | 13 17 50 | | NOV. . | 8 19 17 | 8 8 46 |
| | NOV. . | 12 4 8 | 12 11 43 | | DEC. . | 8 8 1 | 8 1 58 |
| | DEC. . | 11 16 52 | 12 3 59 | | ○ | 23 2 23 | 23 9 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 884. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 881. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 30 0 6 | JAN. . | 6 20 45 | 6 20 31 | E.D. March. <i>d. h. m.</i> 29 17 32 | JAN. . | 4 11 55 | 4 9 5 |
| | FEB. . | 5 9 29 | 5 15 1 | | FEB. . | 3 0 39 | 2 20 9 |
| | MAR. . | 6 22 14 | 7 8 10 | | MAR. . | 3 13 24 | 3 7 44 |
| | APRIL | 5 10 58 | 5 22 55 | | APRIL | { 2 2 8 | 1 20 13 |
| | MAY . | 4 23 42 | 5 10 57 | | ○ | { 16 20 30 | 17 6 23 |
| | JUNE . | { 3 12 26 | 3 20 39 | | MAY . | { 1 14 52 | 1 9 55 |
| | ○ | { 18 6 48 | 17 20 42 | | | { 31 3 36 | 31 0 44 |
| | JULY . | 3 1 10 | 3 4 53 | | JUNE . | 29 16 20 | 29 16 15 |
| | AUG. . | { 1 13 54 | 1 12 42 | | JULY . | 29 5 4 | 29 7 46 |
| | | { 31 2 38 | 30 21 3 | | AUG. . | 27 17 48 | 27 22 44 |
| | SEPT. . | 29 15 22 | 29 6 40 | | SEPT. . | 26 6 32 | 26 12 46 |
| | OCT. . | 29 4 6 | 28 18 3 | | ○ | { 11 0 54 | 10 12 15 |
| | NOV. . | 27 16 50 | 27 7 22 | | OCT. . | { 25 19 16 | 26 1 46 |
| | ○ | { 12 11 12 | 12 22 7 | | NOV. . | 24 8 0 | 24 13 46 |
| | DEC. . | { 27 5 31 | 26 22 32 | | DEC. . | 23 20 44 | 24 0 51 |
| 883. | JAN. . | 25 13 18 | 25 15 6 | 880. | JAN. . | 22 9 28 | 22 11 2 |
| G. 20 5 55 | FEB. . | 24 7 2 | 24 8 17 | C. 29 23 21 | FEB. . | 20 22 12 | 20 20 36 |
| | MAR. . | 25 19 47 | 26 1 8 | | MAR. . | 22 10 57 | 22 6 3 |
| | APRIL | 24 8 31 | 24 16 41 | | ○ | { 6 5 19 | 6 18 9 |
| | MAY . | 23 21 15 | 24 6 18 | | APRIL | { 20 23 41 | 20 16 8 |
| | ○ | { 7 15 37 | 7 5 27 | | MAY . | 20 12 25 | 20 3 40 |
| | JUNE . | { 22 9 59 | 22 17 56 | | JUNE . | 19 1 9 | 18 17 4 |
| | JULY . | 21 22 43 | 22 4 2 | | JULY . | 18 13 53 | 18 8 22 |
| | AUG. . | 20 11 27 | 20 13 22 | | AUG. . | 17 2 37 | 17 1 0 |
| | SEPT. . | 19 0 11 | 18 22 46 | | SEPT. . | { 15 15 21 | 15 18 5 |
| | OCT. . | 18 12 55 | 18 8 43 | | ○ | { 30 9 43 | 29 22 51 |
| | NOV. . | 17 1 39 | 16 19 41 | | OCT. . | 15 4 5 | 15 10 37 |
| | DEC. . | 16 14 23 | 16 7 30 | | NOV. . | 13 16 49 | 14 1 52 |
| | | | | | DEC. . | 13 5 33 | 13 15 22 |
| 882. | JAN. . | 15 3 7 | 14 20 39 | 879. | JAN. . | 11 18 17 | 12 3 0 |
| F. 30 11 44 | FEB. . | 13 15 51 | 13 10 43 | B. 30 5 10 | FEB. . | 10 7 1 | 10 12 54 |
| | MAR. . | 15 4 35 | 15 1 45 | | MAR. . | 11 19 45 | 11 21 28 |
| | APRIL | 13 17 19 | 13 17 22 | | APRIL | 10 8 29 | 10 5 23 |
| | MAY . | 13 6 3 | 13 8 57 | | MAY . | 9 21 13 | 9 13 36 |
| | JUNE . | 11 18 47 | 11 23 52 | | JUNE . | 8 9 57 | 7 23 9 |
| | JULY . | 11 7 31 | 11 13 35 | | JULY . | 7 22 41 | 7 10 53 |
| | AUG. . | 9 20 15 | 10 2 3 | | AUG. . | 6 11 25 | 6 1 16 |
| | SEPT. . | 8 8 59 | 8 13 32 | | SEPT. . | { 5 0 9 | 4 18 5 |
| | OCT. . | 7 21 43 | 8 0 30 | | ○ | { 19 18 31 | 19 14 18 |
| | NOV. . | 6 10 27 | 6 11 21 | | OCT. . | 4 12 53 | 4 12 25 |
| | DEC. . | 5 23 11 | 5 22 11 | | NOV. . | 3 1 37 | 3 6 56 |
| | | | | | DEC. . | 2 14 21 | 3 0 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 878. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 875. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | { 1 3 5 | 1 15 27 | March. | JAN. . | 27 6 59 | 27 9 38 |
| <i>d. h. m.</i> | FEB. . | { 30 15 49 | 31 4 0 | <i>d. h. m.</i> | FEB. . | 25 19 43 | 26 3 26 |
| 30 10 59 | MAR. . | ... | ... | 30 4 25 | MAR. . | 27 8 23 | 27 19 23 |
| | APRIL | { 1 4 34 | 1 14 5 | | APRIL | 25 21 12 | 26 8 45 |
| | MAY . | { 30 17 18 | 30 22 14 | | MAY . | 25 9 56 | 25 19 36 |
| | JUNE . | 29 6 2 | 29 5 20 | | JUNE . | 23 22 40 | 24 4 34 |
| | JULY . | 28 18 46 | 28 12 24 | | JULY . | 23 11 24 | 23 12 33 |
| | AUG. . | 27 7 30 | 26 20 30 | | AUG. . | 22 0 8 | 21 20 49 |
| | SEPT. . | 26 20 14 | 26 6 45 | | SEPT. . | 20 12 52 | 20 5 54 |
| | OCT. . | 25 8 58 | 24 19 53 | | OCT. . | 20 1 36 | 19 16 23 |
| | NOV. . | 23 21 42 | 23 12 2 | | NOV. . | 18 14 20 | 18 4 48 |
| | DEC. . | 23 10 26 | 23 6 33 | | DEC. . | 18 3 4 | 17 18 57 |
| | | 21 23 10 | 22 2 2 | | | | |
| | | 21 11 54 | 21 20 52 | | | | |
| 877. G.F. | JAN. . | 20 0 33 | 20 13 52 | 874. C. | JAN. . | 16 15 48 | 16 10 39 |
| 29 16 48 | ○ | { 3 19 0 | 3 13 21 | 30 10 14 | FEB. . | 15 4 32 | 15 3 22 |
| | FEB. . | { 18 13 22 | 19 3 17 | | MAR. . | 16 17 16 | 16 20 17 |
| | MAR. . | 19 2 7 | 19 14 5 | | APRIL | 15 6 0 | 15 12 26 |
| | APRIL | 17 14 51 | 17 22 28 | | MAY . | { 14 18 44 | 15 3 4 |
| | MAY . | 17 3 35 | 17 5 26 | | ○ | { 29 13 6 | 29 4 41 |
| | JUNE . | 15 16 19 | 15 12 5 | | JUNE . | 13 7 28 | 13 15 46 |
| | JULY . | { 15 5 3 | 14 19 31 | | JULY . | 12 20 12 | 13 2 46 |
| | ○ | { 29 23 25 | 30 4 10 | | AUG. . | 11 8 56 | 11 12 38 |
| | AUG. . | 13 17 47 | 13 4 45 | | SEPT. . | 9 21 40 | 9 22 9 |
| | SEPT. . | 12 6 31 | 11 16 39 | | OCT. . | 9 10 24 | 9 8 0 |
| | OCT. . | 11 19 15 | 11 7 36 | | NOV. . | { 7 23 8 | 7 18 33 |
| | NOV. . | 10 7 59 | 10 1 15 | | ○ | { 22 17 30 | 22 23 19 |
| | DEC. . | 9 20 43 | 9 20 30 | | DEC. . | 7 11 52 | 7 5 57 |
| 876. E. | JAN. . | { 8 9 27 | 8 15 46 | 873. B.A. | JAN. . | 6 0 36 | 5 13 15 |
| 29 22 37 | ○ | { 23 3 49 | 23 2 45 | 29 16 3 | FEB. . | 4 13 20 | 4 7 31 |
| | FEB. . | 6 22 11 | 7 9 27 | | MAR. . | 5 2 5 | 4 21 48 |
| | MAR. . | 8 10 55 | 9 0 27 | | APRIL | 3 14 49 | 3 12 55 |
| | APRIL | 6 23 39 | 7 12 24 | | MAY . | { 3 3 33 | 3 4 27 |
| | MAY . | 6 12 23 | 6 21 43 | | ○ | { 17 21 55 | 17 20 54 |
| | JUNE . | 5 1 7 | 5 5 19 | | JUNE . | 1 16 17 | 1 19 46 |
| | JULY . | { 4 13 51 | 4 12 18 | | JULY . | { 1 5 1 | 1 10 17 |
| | ○ | { 19 8 13 | 19 5 57 | | AUG. . | 29 6 29 | 29 12 14 |
| | AUG. . | 3 2 35 | 2 19 45 | | SEPT. . | 27 19 13 | 27 23 17 |
| | SEPT. . | 1 15 19 | { 1 4 33 | | OCT. . | 27 7 57 | 27 10 21 |
| | OCT. . | { 1 4 3 | { 30 15 38 | | ○ | { 11 2 19 | 10 22 34 |
| | NOV. . | 29 5 31 | 30 5 13 | | NOV. . | { 25 20 41 | 25 21 15 |
| | DEC. . | 23 18 15 | 23 15 7 | | DEC. . | 25 9 25 | 25 8 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 872. G. March. d. h. m. 29 21 52 | | d. h. m. | d. h. m. | B.C. 869. D.C. March. d. h. m. 29 15 18 | | d. h. m. | d. h. m. |
| | JAN. . | 23 22 9 | 23 18 48 | | JAN. . | 21 13 19 | 22 2 14 |
| | FEB. . | 22 10 53 | 22 5 48 | | FEB. . | 20 2 3 | 20 13 23 |
| | MAR. . | 23 23 38 | 23 17 30 | | ○ | { 5 20 25 | 5 18 14 |
| | APRIL | 22 12 22 | 22 6 19 | | MAR. . | { 20 14 48 | 20 22 16 |
| | ○ | { 7 6 44 | 7 13 59 | | APRIL | 19 3 32 | 19 5 39 |
| | MAY . | { 22 1 6 | 21 20 27 | | MAY . | 18 16 16 | 18 12 30 |
| | JUNE . | 20 13 50 | 20 11 42 | | JUNE . | 17 5 0 | 16 19 55 |
| | JULY . | 20 2 34 | 20 3 27 | | JULY . | 16 17 44 | 16 4 59 |
| | AUG. . | 18 15 18 | 18 19 0 | | AUG. . | { 15 6 28 | 14 16 40 |
| | SEPT. . | 17 4 2 | 17 9 50 | | ○ | { 30 0 50 | 30 5 0 |
| | OCT. . | { 16 16 46 | 16 23 37 | | SEPT. . | 13 19 12 | 13 7 25 |
| | ○ | { 31 11 8 | 31 0 13 | | OCT. . | 18 7 56 | 13 0 57 |
| | NOV. . | 15 5 30 | 15 12 18 | | NOV. . | 11 20 40 | 11 20 15 |
| | DEC. . | 14 18 14 | 14 23 53 | | DEC. . | 11 9 24 | 11 15 39 |
| 871. F. 30 3 41 | JAN. . | 13 6 58 | 13 10 24 | 868. B. 29 21 7 | JAN. . | 9 22 8 | 10 9 32 |
| | FEB. . | 11 19 42 | 11 20 2 | | FEB. . | { 8 10 52 | 9 0 45 |
| | MAR. . | 13 8 26 | 13 5 12 | | ○ | { 23 5 14 | 22 23 35 |
| | APRIL | 11 21 10 | 11 14 37 | | MAR. . | 9 23 36 | 10 12 53 |
| | MAY . | 11 9 54 | 11 1 9 | | APRIL | 8 12 20 | 8 22 17 |
| | JUNE . | 9 22 33 | 9 13 27 | | MAY . | 8 1 4 | 8 5 47 |
| | JULY . | 9 11 22 | 9 3 50 | | JUNE . | 6 13 48 | 6 12 28 |
| | AUG. . | 8 0 6 | 7 20 0 | | JULY . | 6 2 32 | 5 19 24 |
| | SEPT. . | 6 12 50 | 6 13 13 | | AUG. . | 4 15 16 | 4 3 42 |
| | OCT. . | 6 1 34 | 6 6 24 | | SEPT. . | 3 4 0 | 2 14 16 |
| | NOV. . | 4 14 18 | 4 22 33 | | OCT. . | 2 16 44 | { 2 3 46 |
| | DEC. . | 4 3 2 | 4 13 10 | | NOV. . | { 1 5 28 | { 31 20 10 |
| | | | | | DEC. . | { 30 18 12 | 30 14 46 |
| 870. E. 30 9 30 | JAN. . | 2 15 46 | 3 1 45 | 867. A. 30 2 56 | DEC. . | 30 6 56 | 30 10 8 |
| | FEB. . | 1 4 30 | 1 12 22 | | ○ | { 14 1 18 | 14 1 58 |
| | MAR. . | { 2 17 15 | 2 21 21 | | JAN. . | { 28 19 40 | 29 4 41 |
| | ○ | { 17 11 37 | 17 17 54 | | FEB. . | 27 8 24 | 27 21 2 |
| | APRIL | { 1 5 59 | 1 5 18 | | MAR. . | 23 21 9 | 29 10 26 |
| | MAY . | { 30 18 43 | 30 13 5 | | APRIL | 27 9 53 | 27 20 58 |
| | JUNE . | 30 7 27 | 29 21 42 | | MAY . | 26 22 37 | 27 5 19 |
| | JULY . | 28 20 11 | 28 8 12 | | JUNE . | 25 11 21 | 25 12 34 |
| | AUG. . | 28 8 55 | 27 21 16 | | JULY . | 25 0 5 | 24 19 48 |
| | ○ | { 26 21 39 | 26 13 2 | | AUG. . | 23 12 49 | 23 3 59 |
| | SEPT. . | { 10 16 1 | 10 13 50 | | SEPT. . | 22 1 33 | 21 13 59 |
| | OCT. . | { 25 10 23 | 25 6 55 | | OCT. . | 21 14 17 | 21 2 19 |
| | NOV. . | 24 23 7 | 25 1 42 | | NOV. . | 20 3 1 | 19 17 9 |
| | DEC. . | 23 11 51 | 23 19 57 | | DEC. . | 19 15 45 | 19 10 5 |
| | | 23 0 35 | 23 12 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--|--|--|---|---|---|--|
| B.C. 866. G. March. d. h. m. 30 8 45 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | d. h. m. { 3 10 7 18 4 29 16 17 13 18 5 58 16 18 42 16 7 26 { 14 20 10 29 14 32 14 8 54 12 21 33 11 10 22 10 23 6 9 11 50 { 9 0 31 23 18 56 | d. h. m. 3 17 55 18 4 14 16 22 23 18 15 14 17 5 50 16 17 57 15 3 52 29 3 30 14 12 26 12 20 38 11 5 22 10 15 18 9 2 48 8 15 58 24 6 40 | B.C. 863. C. March. d. h. m. 30 2 11 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | d. h. m. 14 19 39 13 8 23 14 21 8 { 13 9 52 28 4 14 12 22 36 11 11 20 11 0 4 9 12 48 8 1 32 { 7 14 16 22 8 38 6 3 0 5 15 44 | d. h. m. 14 17 45 13 4 19 14 15 19 13 3 15 28 13 47 12 16 32 11 7 12 10 22 52 9 14 50 8 6 22 7 21 0 21 20 32 6 10 27 5 22 41 |
| 865. F.E. 29 14 31 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 7 13 18 6 2 2 6 14 46 5 3 30 4 16 14 { 3 4 58 17 23 20 2 17 42 { 1 6 26 30 19 10 29 7 54 28 20 38 27 9 22 26 22 6 | 7 6 43 5 22 45 6 15 25 5 7 52 4 23 16 3 13 2 17 12 39 3 1 1 1 11 35 30 21 26 29 7 17 28 17 37 27 4 37 26 16 21 | 862. B. 30 8 0 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . ○ OCT. . NOV. . DEC. . | 4 4 28 2 17 12 4 5 56 { 2 18 40 17 13 2 2 7 24 31 20 8 30 8 52 29 21 36 28 10 20 26 23 4 { 11 17 26 26 11 48 25 0 32 24 13 16 | 4 9 40 2 19 33 4 4 39 2 13 37 18 1 14 1 23 14 31 10 26 29 23 44 29 15 10 28 8 9 27 1 43 11 7 24 26 18 46 25 10 24 25 0 3 |
| 864. D. 29 20 23 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 25 10 50 23 23 34 25 12 19 24 1 3 23 13 47 22 2 31 21 15 15 20 3 59 18 16 43 18 5 27 16 18 11 16 6 55 | 25 4 53 23 18 20 25 8 47 23 23 58 23 15 24 22 6 23 21 20 37 20 9 39 18 21 45 18 9 12 16 20 18 16 7 8 | 861. A.G. 29 13 49 | JAN. . FEB. . MAR. . ○ APRIL MAY . JUNE . JULY . AUG. . SEPT. . ○ OCT. . NOV. . DEC. . | 23 2 0 21 14 44 22 3 29 { 5 21 51 20 16 13 20 4 57 18 17 41 18 6 25 16 19 9 15 7 53 { 30 2 15 14 20 37 13 9 21 12 22 5 | 23 11 33 21 21 9 22 5 21 6 5 20 20 12 55 19 20 50 18 6 12 17 17 55 16 8 25 15 1 30 29 22 54 14 20 10 13 15 2 13 8 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--------|------------------------------------|------------------------------------|--|--------|------------------------------------|------------------------------------|
| B.C. 860. F. March. <i>d. h. m.</i> 29 19 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 857. C.B. March. <i>d. h. m.</i> 29 13 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 10 49 | 11 23 48 | | JAN. . | { 9 1 59 | 8 23 1 |
| | FEB. . | 9 23 33 | 10 12 13 | | ○ | { 23 20 21 | 24 3 26 |
| | MAR.. | 11 12 17 | 11 22 1 | | FEB. . | 7 14 43 | 7 17 7 |
| | APRIL | 10 1 1 | 10 5 53 | | MAR.. | 8 3 27 | 8 10 33 |
| | MAY . | 9 13 45 | 9 12 49 | | APRIL | 6 16 11 | 7 2 16 |
| | JUNE . | 8 2 29 | 7 19 45 | | MAY . | 6 4 55 | 6 15 37 |
| | JULY . | 7 15 13 | 7 3 51 | | JUNE . | 4 17 39 | 5 2 39 |
| | AUG.. | 6 3 57 | 5 14 10 | | JULY . | 4 6 23 | 4 11 57 |
| | SEPT.. | 4 16 41 | 4 3 26 | | AUG.. | 2 19 7 | 2 20 23 |
| | OCT. . | 4 5 25 | 3 19 46 | | SEPT.. | { 1 7 51 | 1 5 0 |
| | NOV. . | 2 18 9 | 2 14 25 | | OCT. . | { 30 20 35 | 30 14 27 |
| | DEC. . | { 2 6 53 | 2 10 0 | | NOV. . | 30 9 19 | 30 1 14 |
| | | { 31 19 37 | ... | | DEC. . | 28 22 3 | 28 13 32 |
| | | | | | | 28 10 47 | 28 3 20 |
| 859. E. | JAN. . | { ... | 1 4 50 | 856. A. | JAN. . | 26 23 31 | 26 18 31 |
| | ○ | { 30 8 21 | 30 21 27 | | FEB. . | 25 12 15 | 25 10 40 |
| | FEB. . | { 14 2 43 | 13 21 25 | | MAR.. | 27 1 0 | 27 3 7 |
| | MAR.. | { 23 21 6 | { 1 11 4 | | APRIL | 25 13 44 | 25 19 3 |
| | APRIL | 30 9 50 | { 30 21 41 | | MAY . | 25 2 23 | 25 9 41 |
| | MAY . | 23 22 34 | 29 5 57 | | ○ | { 8 20 50 | 8 11 58 |
| | JUNE . | 23 11 18 | 23 12 53 | | JUNE . | { 23 15 12 | 23 22 41 |
| | JULY . | 27 0 2 | 26 19 36 | | JULY . | 23 3 56 | 23 10 8 |
| | ○ | { 10 7 8 | 10 11 20 | | AUG.. | 21 16 40 | 21 20 31 |
| | AUG.. | { 25 1 30 | 24 12 36 | | SEPT.. | 20 5 24 | 20 6 33 |
| | SEPT.. | 23 14 14 | 23 0 41 | | OCT. . | 19 18 8 | 19 16 47 |
| | OCT. . | 23 2 58 | 22 15 42 | | NOV. . | 18 6 52 | 18 3 30 |
| | NOV. . | 21 15 42 | 21 9 18 | | ○ | { 3 1 14 | 3 7 24 |
| | DEC. . | 21 4 26 | 21 4 24 | | DEC. . | { 17 19 36 | 17 14 48 |
| 858. D. | JAN. . | 19 17 10 | 19 23 23 | 855. G. | JAN. . | 16 8 20 | 16 2 42 |
| | ○ | { 3 11 32 | 3 11 12 | | FEB. . | 14 21 4 | 14 15 24 |
| | FEB. . | { 18 5 54 | 18 16 55 | | MAR.. | 16 9 49 | 16 5 3 |
| | MAR.. | 19 18 39 | 20 7 45 | | APRIL | 14 22 33 | 14 19 39 |
| | APRIL | 18 7 23 | 18 19 38 | | MAY . | { 14 11 17 | 14 10 54 |
| | MAY . | 17 20 7 | 18 4 59 | | ○ | { 29 5 39 | 29 4 22 |
| | JUNE . | 16 8 51 | 16 12 44 | | JUNE . | 13 0 1 | 13 2 16 |
| | JULY . | { 15 21 35 | 15 19 56 | | JULY . | 12 12 45 | 12 17 5 |
| | ○ | { 30 15 57 | 30 12 45 | | AUG.. | 11 1 29 | 11 6 58 |
| | AUG.. | 14 10 19 | 14 3 43 | | SEPT.. | 9 14 13 | 9 19 48 |
| | SEPT.. | 12 23 3 | 12 12 52 | | OCT. . | 9 2 57 | 9 7 48 |
| | OCT. . | 12 11 47 | 12 0 6 | | NOV. . | { 7 15 41 | 7 19 14 |
| | NOV. . | 11 0 31 | 10 13 40 | | ○ | { 22 10 3 | 22 6 33 |
| | DEC. . | 10 13 15 | 10 5 31 | | DEC. . | 7 4 25 | 7 6 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 854. P. March. <i>d. h. m.</i> 30 6 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 851. B. March. <i>d. h. m.</i> 29 23 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 5 17 9 | 5 16 51 | | JAN. . | { 2 8 19 | 2 20 40 |
| | FEB. . | 4 5 53 | 4 3 12 | | FEB. . | { 31 21 3 | ... |
| | MAR. . | 5 18 37 | 5 13 33 | | FEB. . | ... | 1 10 27 |
| | APRIL | 4 7 21 | 4 0 44 | | MAR. ○ | { 2 9 47 | 2 21 24 |
| | MAY . | { 3 20 5 | 3 13 5 | | MAR. ○ | { 17 4 9 | 17 1 20 |
| | ○ | { 18 14 27 | 18 21 21 | | | { 31 22 31 | |
| | JUNE . | 2 8 49 | 2 2 57 | | APRIL | 30 11 15 | { 1 6 2 |
| | JULY . | { 1 21 33 | 1 18 14 | | MAY . | 29 23 59 | { 30 13 11 |
| | AUG. . | { 31 10 17 | 31 10 17 | | JUNE . | 28 12 43 | 29 19 54 |
| | SEPT. . | 29 23 1 | 30 2 21 | | JULY . | 28 1 27 | 28 3 17 |
| | OCT. . | 28 11 45 | 28 17 48 | | AUG. . | 26 14 11 | 27 12 25 |
| | ○ | { 11 18 51 | 11 8 30 | | ○ | { 10 8 33 | 26 0 13 |
| | NOV. . | { 26 13 13 | 26 21 8 | | SEPT. . | { 25 2 55 | 10 13 6 |
| | DEC. . | 26 1 57 | 26 8 44 | | OCT. . | 24 15 39 | 24 15 7 |
| | | | | | NOV. . | 23 4 23 | 24 8 49 |
| | | | | | DEC. . | 23 4 23 | 23 4 12 |
| | | | | | DEC. . | 22 17 7 | 23 23 37 |
| 853. E.D. 29 12 20 | JAN. . | 24 14 41 | 24 19 1 | 850. A. 30 5 46 | JAN. . | 21 5 51 | 21 17 26 |
| | FEB. . | 23 3 25 | 23 4 15 | | FEB. . | 19 18 35 | 20 8 31 |
| | MAR. . | 23 16 10 | 23 12 58 | | ○ | { 6 12 57 | 6 7 14 |
| | APRIL | 22 4 54 | 21 21 56 | | MAR. . | { 21 7 20 | 21 20 31 |
| | MAY . | 21 17 38 | 21 8 4 | | APRIL | 19 20 4 | 21 20 31 |
| | JUNE . | 20 6 22 | 19 20 10 | | MAY . | 19 8 48 | 20 5 46 |
| | JULY . | 19 19 6 | 19 10 36 | | JUNE . | 17 21 32 | 19 13 13 |
| | AUG. . | 18 7 50 | 18 3 2 | | JULY . | 17 10 16 | 17 19 56 |
| | SEPT. . | 16 20 34 | 16 20 40 | | AUG. . | 15 23 0 | 17 3 2 |
| | OCT. . | 16 9 18 | 16 14 22 | | SEPT. . | 14 11 44 | 15 11 32 |
| | NOV. . | 14 22 2 | 15 7 0 | | OCT. . | 14 0 28 | 13 22 19 |
| | DEC. . | 14 10 46 | 14 21 48 | | NOV. . | 12 13 12 | 13 11 56 |
| | | | | | DEC. . | 12 4 19 | 12 4 19 |
| | | | | | DEC. . | 12 1 56 | 11 22 46 |
| 852. C. 29 18 9 | JAN. . | 12 23 30 | 13 10 20 | 849. G.F. 29 11 35 | JAN. . | { 10 14 40 | 10 17 55 |
| | FEB. . | 11 12 14 | 11 20 44 | | ○ | { 25 9 2 | 25 10 34 |
| | MAR. . | { 13 0 59 | 13 5 23 | | FEB. . | 9 3 24 | 9 12 12 |
| | ○ | { 27 19 21 | 28 0 44 | | MAR. . | 9 16 9 | 10 4 21 |
| | APRIL | 11 13 43 | 11 12 59 | | APRIL | 8 4 53 | 10 4 21 |
| | MAY . | 11 2 27 | 10 20 26 | | MAY . | 7 17 37 | 8 17 39 |
| | JUNE . | 9 15 11 | 9 4 52 | | JUNE . | 6 6 21 | 8 4 10 |
| | JULY . | 9 3 55 | 8 15 16 | | JULY . | 5 19 5 | 6 12 40 |
| | AUG. . | 7 16 39 | 7 4 24 | | AUG. . | 4 7 49 | 5 20 7 |
| | SEPT. . | { 6 5 23 | 5 20 21 | | SEPT. . | 2 20 33 | 4 3 39 |
| | ○ | { 20 23 45 | 20 22 18 | | | { 2 9 17 | 2 12 11 |
| | OCT. . | 5 18 7 | 5 14 33 | | OCT. . | { 31 22 1 | 1 22 26 |
| | NOV. . | 4 6 51 | 4 9 40 | | NOV. . | 30 10 45 | 31 10 52 |
| | DEC. . | 3 19 35 | 4 4 9 | | DEC. . | 30 1 33 | 30 1 33 |
| | | | | | DEC. . | 29 23 29 | 29 18 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---|---|---|--|---|---|---|
| B.C. 848. E. March. d. h. m. 29 17 24 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. { 13 17 51 { 23 12 13 27 0 57 28 13 41 27 2 25 26 15 9 25 3 53 { 9 22 15 { 24 16 37 23 5 21 21 18 5 21 6 49 19 19 38 19 8 17 | d. h. m. 14 2 34 28 11 51 27 5 34 28 22 7 27 12 40 27 0 53 25 11 4 9 10 24 24 20 2 23 4 41 21 13 51 21 0 3 19 11 36 19 0 32 | B.C. 845. R.A. March. d. h. m. 29 10 50 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | d. h. m. 26 3 22 24 16 6 25 4 51 23 17 35 { 8 11 57 { 23 6 19 21 19 3 21 7 47 19 20 31 18 9 15 17 21 59 { 1 16 21 { 16 10 43 15 23 27 | d. h. m. 26 2 17 24 12 22 24 22 47 28 10 12 8 21 6 22 23 8 21 13 43 21 5 34 19 21 57 18 14 4 18 5 17 1 4 54 16 19 9 16 7 30 |
| 847. D. 29 23 13 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 3 2 39 { 17 21 1 16 9 45 17 22 30 16 11 14 15 23 58 { 14 12 42 { 29 7 4 14 1 26 12 14 10 11 2 54 10 15 38 9 4 22 8 17 6 | 3 13 33 17 14 49 16 6 16 17 22 24 16 14 30 16 5 50 14 19 46 28 19 55 14 8 9 12 19 15 11 5 40 10 15 58 9 2 33 8 13 31 | 844. G. 29 16 39 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 14 12 11 13 0 55 14 13 40 { 13 2 24 { 27 20 46 12 15 8 11 3 52 10 16 36 9 5 20 7 18 4 { 7 6 48 { 22 1 10 5 19 32 5 8 16 | 14 18 22 13 3 55 14 12 36 12 21 5 28 8 12 12 6 21 10 17 16 10 6 31 8 22 6 7 15 26 7 9 9 21 16 5 6 2 59 5 18 56 |
| 846. C. 30 5 2 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 7 5 50 5 18 34 7 7 18 5 20 2 5 8 46 3 21 30 3 10 14 { 1 22 58 { 31 11 42 30 0 26 29 13 10 28 1 54 27 14 38 | 7 0 58 5 12 59 7 1 49 5 15 41 5 6 29 3 21 51 3 13 6 2 3 43 31 17 21 30 6 2 29 17 57 28 5 14 27 16 0 | 843. F. 29 22 23 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . ○ OCT. . NOV. . DEC. . | 3 21 0 2 9 44 3 22 28 { 2 11 12 { 17 5 34 { 1 23 56 { 31 12 40 30 1 24 29 14 8 28 2 52 26 15 36 { 11 9 58 { 26 4 20 24 17 4 24 5 48 | 4 8 38 2 19 59 4 5 16 2 13 7 17 11 59 1 20 22 31 4 4 29 13 18 29 1 2 27 15 41 26 9 1 11 7 35 26 4 0 24 23 7 24 16 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|-----------|------------------------------------|------------------------------------|
| B.C. 842. E. March. d. h. m. 30 4 17 | | d. h. m. | d. h. m. | B.C. 839. A. March. d. h. m. 29 21 43 | | d. h. m. | d. h. m. |
| | JAN. . | 22 18 32 | 23 8 0 | | JAN. . | 19 9 42 | 19 6 48 |
| | FEB. . | 21 7 16 | 21 20 15 | | ○ | { 3 4 4 | 3 11 58 |
| | MAR. . | 22 20 1 | 23 5 51 | | FEB. . | { 17 22 26 | 18 0 24 |
| | APRIL . | 21 8 45 | 21 13 31 | | MAR. . | 19 11 11 | 19 17 30 |
| | MAY . | 20 21 29 | 20 20 15 | | APRIL . | 17 23 55 | 18 9 2 |
| | JUNE . | 19 10 13 | 19 3 9 | | MAY . | 17 12 39 | 17 22 27 |
| | JULY . | 18 22 57 | 18 11 19 | | JUNE . | 16 1 23 | 16 9 44 |
| | AUG. . | 17 11 41 | 16 21 45 | | JULY . | { 15 14 7 | 15 19 23 |
| | SEPT. . | 16 0 25 | 15 11 11 | | ○ | { 30 8 29 | 29 20 49 |
| | OCT. . | 15 13 9 | 15 3 37 | | AUG. . | 14 2 51 | 14 4 19 |
| | NOV. . | 14 1 53 | 13 22 23 | | SEPT. . | 12 15 35 | 12 13 21 |
| | DEC. . | 13 14 37 | 13 17 59 | | OCT. . | 12 4 19 | 11 23 10 |
| | | | | | NOV. . | 10 17 3 | 10 10 4 |
| | | | | | DEC. . | 10 5 47 | 9 22 15 |
| 841. D.C. 29 10 6 | JAN. . | 12 3 21 | 12 12 44 | 838. G. 30 3 32 | JAN. . | 8 18 31 | 8 11 41 |
| | FEB. . | { 10 16 5 | 11 5 13 | | FEB. . | 7 7 15 | 7 2 18 |
| | ○ | { 25 10 27 | 25 5 20 | | MAR. . | 8 20 0 | 8 17 52 |
| | MAR. . | 11 4 50 | 11 18 41 | | APRIL . | 7 8 44 | 7 9 50 |
| | APRIL . | 9 17 34 | 10 7 9 | | MAY . | 6 21 28 | 7 1 33 |
| | MAY . | 9 6 18 | 9 13 22 | | JUNE . | { 5 10 12 | 5 16 18 |
| | JUNE . | 7 19 2 | 7 20 19 | | ○ | { 20 4 34 | 19 19 18 |
| | JULY . | 7 7 46 | 7 3 10 | | JULY . | 4 22 56 | 5 5 38 |
| | AUG. . | { 5 20 30 | 5 10 58 | | AUG. . | 3 11 40 | 3 17 34 |
| | ○ | { 20 14 52 | 20 13 37 | | SEPT. . | 2 0 24 | 2 4 32 |
| | SEPT. . | 4 9 14 | 3 20 38 | | OCT. . | { 1 13 8 | 1 15 6 |
| | OCT. . | 3 21 58 | 3 8 53 | | { 31 1 52 | 31 1 40 | |
| | NOV. . | 2 10 42 | 1 23 56 | | NOV. . | 29 14 36 | 29 12 28 |
| | DEC. . | { 1 23 26 | 1 17 25 | | ○ | { 14 8 58 | 14 15 26 |
| | | { 31 12 10 | 31 12 16 | | DEC. . | { 29 3 20 | 28 23 34 |
| 840. B. 29 15 54 | JAN. . | 30 0 54 | 30 7 1 | 837. F.E. 29 9 21 | JAN. . | 27 16 4 | 27 11 3 |
| | ○ | { 13 19 16 | 13 19 32 | | FEB. . | 26 4 43 | 25 23 8 |
| | FEB. . | { 28 13 38 | { 1 0 14 | | MAR. . | 26 17 32 | 26 12 11 |
| | MAR. . | 30 2 22 | { 30 14 54 | | APRIL . | 25 6 16 | 25 2 18 |
| | APRIL . | 28 15 6 | 29 2 45 | | MAY . | 24 19 0 | 24 17 22 |
| | MAY . | 28 3 50 | 28 12 12 | | ○ | { 8 13 22 | 8 11 48 |
| | JUNE . | 26 16 34 | 26 20 10 | | JUNE . | { 23 7 44 | 23 8 47 |
| | JULY . | 26 5 18 | 26 3 41 | | JULY . | 22 20 28 | 22 23 58 |
| | ○ | { 9 23 40 | 9 19 39 | | AUG. . | 21 9 12 | 21 14 24 |
| | AUG. . | { 24 18 2 | 24 11 48 | | SEPT. . | 19 21 56 | 20 3 51 |
| | SEPT. . | 23 6 46 | 22 21 17 | | OCT. . | 19 10 40 | 19 16 23 |
| | OCT. . | 22 19 30 | 22 8 40 | | NOV. . | 17 23 24 | 18 4 7 |
| | NOV. . | 21 8 14 | 20 22 12 | | ○ | { 2 17 46 | 2 14 35 |
| | DEC. . | 20 20 58 | 20 13 46 | | DEC. . | { 17 12 8 | 17 15 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 836. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 833. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 16 0 52 | 16 1 32 | A.G. | JAN. . | 13 16 2 | 14 4 51 |
| March. | FEB. . | 14 13 36 | 14 11 27 | March. | FEB. . | 12 4 46 | 12 18 30 |
| <i>d. h. m.</i> | MAR. . | 16 2 21 | 15 21 21 | <i>d. h. m.</i> | MAR. . | 12 17 31 | 13 5 16 |
| 29 15 10 | APRIL | 14 15 5 | 14 7 55 | 29 8 36 | O | 27 11 53 | 27 8 19 |
| | MAY . | 14 3 49 | 13 19 51 | | APRIL | 11 6 15 | 11 18 41 |
| | O | 28 22 11 | 29 4 41 | | MAY . | 10 18 59 | 10 20 41 |
| | JUNE . | 12 16 33 | 12 9 31 | | JUNE . | 9 7 43 | 9 3 20 |
| | JULY . | 12 5 17 | 12 0 50 | | JULY . | 8 20 27 | 8 10 45 |
| | AUG. . | 10 18 1 | 10 17 14 | | AUG. . | 7 9 11 | 6 20 1 |
| | SEPT. . | 9 6 45 | 9 9 51 | | SEPT. . | 5 21 55 | 5 7 53 |
| | OCT. . | 8 19 29 | 9 1 52 | | O | 20 16 17 | 20 21 19 |
| | NOV. . | 7 8 13 | 7 16 41 | | OCT. . | 5 10 39 | 4 23 1 |
| | O | 22 2 35 | 21 16 52 | | NOV. . | 3 23 23 | 3 16 43 |
| | DEC. . | 6 20 57 | 7 5 56 | | DEC. . | 3 12 7 | 3 12 10 |
| 835. | JAN. . | 5 9 41 | 5 17 30 | 832. | JAN. . | 2 0 51 | 2 7 30 |
| O. | FEB. . | 3 22 25 | 4 3 31 | F. | FEB. . | 31 13 35 | ... |
| 29 20 59 | MAR. . | 5 11 10 | 5 12 22 | 29 14 25 | MAR. . | 2 2 19 | 2 16 6 |
| | APRIL | 3 23 54 | 3 20 37 | | O | 16 20 41 | 16 14 43 |
| | MAY . | 3 12 33 | 3 5 11 | | | 31 15 8 | 1 3 53 |
| | JUNE . | 2 1 22 | 1 15 1 | | APRIL | 30 3 47 | 30 13 9 |
| | JULY . | 1 14 6 | 1 3 0 | | MAY . | 29 13 31 | 29 20 33 |
| | | 31 2 50 | 30 17 29 | | JUNE . | 28 5 15 | 28 3 27 |
| | AUG. . | 29 15 34 | 29 10 11 | | JULY . | 27 17 59 | 27 10 45 |
| | SEPT. . | 28 4 13 | 28 4 15 | | AUG. . | 26 6 43 | 25 19 31 |
| | OCT. . | 27 17 2 | 27 22 25 | | O | 10 1 5 | 10 5 59 |
| | NOV. . | 26 5 46 | 26 15 24 | | SEPT. . | 24 19 27 | 24 6 31 |
| | DEC. . | 25 13 30 | 26 6 20 | | OCT. . | 24 8 11 | 23 20 13 |
| 834. | JAN. . | 24 7 14 | 24 13 49 | 831. | JAN. . | 20 22 23 | 21 1 34 |
| B. | FEB. . | 22 19 53 | 23 4 57 | E. | O | 4 16 45 | 4 19 3 |
| 30 2 47 | MAR. . | 24 8 42 | 24 13 16 | 29 20 14 | FEB. . | 19 11 7 | 19 19 33 |
| | O | 8 3 4 | 8 7 25 | | MAR. . | 20 23 52 | 21 11 29 |
| | APRIL | 22 21 26 | 22 20 32 | | APRIL | 19 12 36 | 20 0 42 |
| | MAY . | 22 10 10 | 22 3 45 | | MAY . | 19 1 20 | 19 11 13 |
| | JUNE . | 20 22 54 | 20 12 2 | | JUNE . | 17 14 4 | 17 19 53 |
| | JULY . | 20 11 33 | 19 22 26 | | JULY . | 17 2 43 | 17 3 44 |
| | AUG. . | 19 0 22 | 18 11 39 | | AUG. . | 15 15 32 | 15 11 33 |
| | SEPT. . | 17 13 6 | 17 3 49 | | SEPT. . | 14 4 16 | 13 20 31 |
| | O | 2 7 28 | 2 6 52 | | OCT. . | 13 17 0 | 13 7 1 |
| | OCT. . | 17 1 50 | 16 22 16 | | NOV. . | 12 5 44 | 11 19 23 |
| | NOV. . | 15 14 34 | 15 17 33 | | DEC. . | 11 13 23 | 11 9 57 |
| | DEC. . | 15 3 13 | 15 12 13 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 830. D. March. d. h. m. 80 2 3 | | d. h. m. | d. h. m. | B.C. 827. G. March. d. h. m. 29 19 29 | | d. h. m. | d. h. m. |
| | JAN. . | { 10 7 12 | 10 2 7 | | JAN. . | 6 22 22 | 7 0 50 |
| | ○ | { 25 1 34 | 25 11 7 | | FEB. . | 5 11 6 | 5 10 44 |
| | FEB. . | 8 19 56 | 8 19 20 | | MAR. . | 6 23 51 | 6 20 19 |
| | MAR. . | 10 8 41 | 10 12 36 | | APRIL | 5 12 35 | 5 6 11 |
| | APRIL | 8 21 25 | 9 4 53 | | MAY . | { 5 1 19 | 4 17 8 |
| | MAY . | 8 10 9 | 8 19 23 | | ○ | { 19 19 41 | 20 4 22 |
| | JUNE . | 6 22 53 | 7 7 48 | | JUNE . | 3 14 3 | 3 5 46 |
| | JULY . | { 6 11 37 | 6 18 21 | | JULY . | 3 2 47 | 2 20 19 |
| | ○ | { 21 5 59 | 20 17 26 | | AUG. . | { 1 15 31 | 1 12 22 |
| | AUG. . | 5 0 21 | 5 3 46 | | | { 31 4 15 | 31 5 13 |
| | SEPT. . | 3 13 5 | 3 12 53 | | SEPT. . | 29 16 59 | 29 21 55 |
| | OCT. . | 3 1 49 | 2 22 27 | | OCT. . | 29 5 43 | 29 13 39 |
| | NOV. . | 1 14 33 | { 1 8 54 | | ○ | { 13 0 5 | 12 13 22 |
| | | | { 30 20 25 | | NOV. . | { 27 18 27 | 28 3 52 |
| | DEC. . | { 1 3 17 | | | DEC. . | 27 7 11 | 27 16 18 |
| | | { 30 16 1 | 30 9 4 | | | | |
| | ○ | { 14 10 23 | 14 23 28 | 826. F. 80 1 18 | JAN. . | 25 19 55 | 26 2 59 |
| 829. C.H. 29 7 52 | JAN. . | { 29 4 45 | 28 22 51 | | FEB. . | 24 8 39 | 24 12 10 |
| | FEB. . | 27 17 29 | 27 13 40 | | MAR. . | 25 21 23 | 25 20 25 |
| | MAR. . | 28 6 13 | 28 5 15 | | APRIL | 24 10 7 | 24 4 29 |
| | APRIL | 26 18 57 | 26 21 3 | | ○ | { 9 4 29 | 9 15 5 |
| | MAY . | 26 7 41 | 26 12 20 | | MAY . | { 23 22 51 | 23 13 25 |
| | JUNE . | 24 20 25 | 25 2 31 | | JUNE . | 22 11 35 | 22 0 9 |
| | ○ | { 9 14 47 | 9 3 15 | | JULY . | 22 0 19 | 21 13 22 |
| | JULY . | { 24 9 9 | 24 15 22 | | AUG. . | 20 13 3 | 20 5 9 |
| | AUG. . | 22 21 53 | 23 3 2 | | SEPT. . | 19 1 47 | 18 22 50 |
| | SEPT. . | 21 10 37 | 21 14 0 | | OCT. . | 18 14 31 | 18 17 20 |
| | OCT. . | 20 23 21 | 21 0 43 | | ○ | { 2 8 53 | 2 0 51 |
| | NOV. . | 19 12 5 | 19 11 30 | | NOV. . | { 17 3 15 | 17 11 13 |
| | DEC. . | 19 0 49 | 18 22 25 | | DEC. . | 16 15 59 | 17 3 23 |
| | | | | 825. E.D. 29 7 7 | JAN. . | 15 4 43 | 15 17 5 |
| 828. A. 29 13 40 | JAN. . | 17 13 33 | 17 9 30 | | FEB. . | 13 17 27 | 14 4 16 |
| | FEB. . | 16 2 17 | 15 20 59 | | MAR. . | 14 6 12 | 14 13 17 |
| | MAR. . | 17 15 2 | 17 9 13 | | APRIL | { 12 18 56 | 12 20 47 |
| | APRIL | 16 3 46 | 15 22 32 | | ○ | { 27 13 18 | 27 13 35 |
| | MAY . | 15 16 30 | 15 12 59 | | MAY . | 12 7 40 | 12 3 47 |
| | JUNE . | 14 5 14 | 14 4 27 | | JUNE . | 10 20 21 | 10 11 21 |
| | JULY . | 13 17 58 | 13 19 49 | | JULY . | 10 9 8 | 9 20 33 |
| | AUG. . | 12 6 42 | 12 10 54 | | AUG. . | 8 21 52 | 8 8 20 |
| | SEPT. . | 10 19 26 | 11 1 11 | | SEPT. . | 7 10 36 | 6 23 9 |
| | OCT. . | 10 8 10 | 10 14 27 | | OCT. . | { 6 23 20 | 6 16 42 |
| | NOV. . | 8 20 54 | 9 2 46 | | ○ | { 21 17 42 | 21 16 23 |
| | DEC. . | 8 9 38 | 8 14 13 | | NOV. . | 5 12 4 | 5 11 55 |
| | | | | | DEC. . | 5 0 48 | 5 7 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 824. c. March. d. h. m. 29 12 56 | | d. h. m. | d. h. m. | | | d. h. m. | d. h. m. |
| | JAN. . | 3 13 32 | 4 0 57 | B.C. 821. G.F. March. d. h. m. 29 6 22 | JAN. . | { 1 4 42 30 17 26 | ... 30 14 30 |
| | FEB. . | 2 2 16 | 2 16 4 | | ○ | { 14 11 48 29 6 10 | 14 20 14 29 7 35 |
| | MAR. . | 3 15 1 | 4 4 10 | | FEB. . | 29 18 54 | 30 0 19 |
| | APRIL . | 2 3 45 | 2 13 32 | | MAR. . | 28 7 38 | 28 15 48 |
| | MAY . | { 1 16 20 31 5 13 | 1 21 2 31 3 42 | | APRIL . | 27 20 22 | 28 5 18 |
| | JUNE . | 29 17 57 | 29 10 37 | | MAY . | 26 9 6 | 26 16 48 |
| | JULY . | 29 6 41 | 28 18 55 | | JUNE . | 25 21 50 | 26 2 54 |
| | AUG. . | 27 19 25 | 27 5 31 | | JULY . | ○ { 9 16 12 24 10 34 | 9 8 57 24 12 19 |
| | SEPT. . | 26 8 9 | 25 19 5 | | AUG. . | 22 23 18 | 22 21 48 |
| | OCT. . | 25 20 53 | 25 11 38 | | SEPT. . | 22 12 2 | 22 7 57 |
| | NOV. . | 24 9 37 | 24 6 22 | | OCT. . | 21 0 46 | 21 18 57 |
| | DEC. . | 23 22 21 | 24 2 3 | | NOV. . | 20 18 30 | 20 6 56 |
| | JAN. . | 22 11 5 | 22 20 30 | | DEC. . | 19 2 14 | 18 19 55 |
| 823. B. 29 18 45 | FEB. . | 20 23 49 | 21 12 49 | 820. E. 29 12 11 | JAN. . | 17 14 58 | 17 9 56 |
| | ○ | { 7 18 11 22 12 33 | 7 18 8 23 2 7 | | FEB. . | 19 3 43 | 19 0 56 |
| | MAR. . | 21 1 17 | 21 12 31 | | MAR. . | 17 16 27 | 17 16 29 |
| | APRIL . | 20 14 1 | 20 20 43 | | APRIL . | 17 5 11 | 17 8 1 |
| | MAY . | 19 2 45 | 19 3 47 | | MAY . | { 15 17 55 30 12 17 | 15 22 53 30 2 40 |
| | JUNE . | 18 15 29 | 18 10 50 | | JUNE . | 15 6 39 | 15 12 37 |
| | JULY . | { 17 4 13 31 22 35 | 16 18 54 { 1 2 0 15 4 49 | | ○ | 13 19 23 | 14 1 6 |
| | AUG. . | 15 16 57 | 14 17 12 | | JULY . | 12 8 7 | 12 12 40 |
| | SEPT. . | 15 5 41 | 13 8 15 | | AUG. . | 11 20 51 | 11 23 42 |
| | OCT. . | 13 18 25 | 13 1 31 | | SEPT. . | 10 9 35 | 10 10 34 |
| | NOV. . | 13 7 9 | | | NOV. . | { 9 22 19 24 16 41 | 9 21 26 21 23 28 |
| | DEC. . | | | | ○ | | |
| 822. A. 30 0 33 | JAN. . | 11 19 53 | 11 20 2 | 819. D. 29 18 0 | JAN. . | 8 11 3 | 8 8 16 |
| | FEB. . | { 10 8 37 25 2 59 | 10 14 26 25 3 45 | | FEB. . | 6 23 47 | 6 19 16 |
| | ○ | 11 21 22 | 12 7 23 | | MAR. . | 8 12 32 | 8 6 48 |
| | MAR. . | 10 10 6 | 10 21 57 | | APRIL . | 7 1 16 | 6 19 14 |
| | APRIL . | 9 22 50 | 10 9 49 | | MAY . | 6 14 0 | 6 8 56 |
| | MAY . | 8 11 34 | 8 19 26 | | JUNE . | { 5 2 44 19 21 6 | 4 23 48 19 19 17 |
| | JUNE . | 8 0 18 | 8 3 40 | | ○ | 4 15 24 | 4 15 21 |
| | JULY . | { 6 13 2 21 7 24 | 6 11 33 21 2 41 | | JULY . | 3 4 12 | 3 0 56 |
| | AUG. . | 5 1 46 | 4 20 3 | | AUG. . | 1 16 56 | 1 21 57 |
| | SEPT. . | 4 14 30 | 4 5 49 | | SEPT. . | { 1 5 40 30 18 24 | 1 12 2 31 1 4 |
| | OCT. . | 3 3 14 | 2 17 21 | | OCT. . | 29 7 8 | 29 18 3 |
| | NOV. . | { 2 15 53 ... | 2 6 46 31 21 58 | | NOV. . | { 14 1 30 28 19 52 | 13 22 33 29 0 2 |
| | DEC. . | | | | ○ | | |
| | | | | | DEC. . | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|-----------|------------------------------------|------------------------------------|
| B.C. 818. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 815. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. March. | JAN. . | 27 8 36 | 27 10 8 | F. March. | JAN. . | 23 23 46 | 24 12 53 |
| <i>d. h. m.</i> | FEB. . | 25 21 20 | 25 19 35 | <i>d. h. m.</i> | FEB. . | 22 12 30 | 23 2 24 |
| 29 23 49 | MAR. . | 27 10 4 | 27 4 56 | 29 17 15 | MAR. . | 24 1 14 | 24 12 57 |
| | APRIL | 25 22 48 | 25 15 1 | | ○ { | 7 19 36 | 7 15 13 |
| | MAY . | 25 11 32 | 25 2 35 | | APRIL { | 22 13 58 | 22 21 13 |
| | ○ { | 9 5 54 | 9 12 1 | | MAY . | 22 2 42 | 22 4 7 |
| | JUNE . | { 24 0 16 | 23 16 6 | | JUNE . | 20 15 26 | 20 10 47 |
| | JULY . | 23 18 0 | 23 7 32 | | JULY . | 20 4 10 | 19 18 20 |
| | AUG. . | 22 1 44 | 22 0 17 | | AUG. . | 18 16 54 | 18 3 46 |
| | SEPT. . | 20 14 23 | 20 17 26 | | SEPT. . | 17 5 38 | 16 15 52 |
| | OCT. . | 20 3 12 | 20 10 2 | | ○ { | 2 0 0 | 2 5 39 |
| | NOV. . | 18 15 56 | 19 1 14 | | OCT. . | { 16 18 22 | 16 7 1 |
| | ○ { | 3 10 18 | 3 1 15 | | NOV. . | 15 7 6 | 15 0 48 |
| | DEC. . | { 18 4 40 | 18 14 39 | | DEC. . | 14 19 50 | 14 20 5 |
| 817. | JAN. . | 16 17 24 | 17 2 9 | 814. | JAN. . | 13 8 34 | 13 15 16 |
| B.A. | FEB. . | 15 6 8 | 15 11 53 | E. | FEB. . | 11 21 18 | 12 8 46 |
| 29 5 38 | MAR. . | 15 18 53 | 15 20 19 | 29 23 4 | MAR. . | { 13 10 3 | 13 23 33 |
| | APRIL | 14 7 37 | 14 4 10 | | ○ { | 28 4 25 | 27 22 16 |
| | MAY . | 13 20 21 | 13 12 24 | | APRIL | 11 22 47 | 12 11 17 |
| | JUNE . | 12 9 5 | 11 22 0 | | MAY . | 11 11 31 | 11 20 28 |
| | JULY . | 11 21 49 | 11 9 54 | | JUNE . | 10 0 15 | 10 4 2 |
| | AUG. . | 10 10 33 | 10 0 29 | | JULY . | 9 12 59 | 9 11 4 |
| | SEPT. . | 8 23 17 | 8 17 29 | | AUG. . | 8 1 43 | 7 18 37 |
| | OCT. . | 8 12 1 | 8 11 56 | | SEPT. . | { 6 14 27 | 6 3 39 |
| | NOV. . | 7 0 45 | 7 6 29 | | ○ { | 21 8 49 | 21 13 45 |
| | DEC. . | 6 13 29 | 6 23 45 | | OCT. . | 6 3 11 | 5 14 52 |
| | | | | | NOV. . | 4 15 55 | 4 4 36 |
| | | | | | DEC. . | 4 4 39 | 3 20 46 |
| 816. | JAN. . | 5 2 13 | 5 14 46 | | | | |
| G. | FEB. . | 3 14 57 | 4 3 8 | | | | |
| 29 11 26 | MAR. . | 5 3 42 | 5 13 0 | 813. | JAN. . | 2 17 23 | 2 14 38 |
| | APRIL | { 3 16 26 | 3 21 1 | D.G. | FEB. . | 1 6 7 | 1 9 5 |
| | ○ { | 18 10 48 | 18 14 4 | | MAR. . | { 1 18 52 | 2 2 46 |
| | MAY . | 3 5 10 | 3 4 3 | | { 31 7 36 | 31 18 29 | |
| | JUNE . | 1 17 54 | { 1 11 6 | 29 4 53 | APRIL | 29 20 20 | 30 7 41 |
| | | | { 30 19 19 | | MAY . | 29 9 4 | 29 18 24 |
| | JULY . | { 1 6 38 | 30 5 45 | | JUNE . | 27 21 48 | 28 3 21 |
| | AUG. . | 29 8 6 | 28 19 6 | | JULY . | 27 10 32 | 27 11 23 |
| | SEPT. . | 27 20 50 | 27 11 23 | | AUG. . | 25 23 16 | 25 19 45 |
| | ○ { | 12 15 12 | 12 15 34 | | SEPT. . | 24 12 0 | 24 4 59 |
| | OCT. . | { 27 9 34 | 27 6 7 | | OCT. . | 24 0 44 | 23 15 42 |
| | NOV. . | 25 22 18 | 26 1 39 | | NOV. . | 22 13 23 | 22 4 9 |
| | DEC. . | 25 11 2 | 25 20 23 | | DEC. . | 22 2 12 | 21 18 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 812. B. March. d. h. m. 29 10 42 | | d. h. m. | d. h. m. | B.C. 809. F.E. March. d. h. m. 29 4 8 | | d. h. m. | d. h. m. |
| | JAN. . | 20 14 56 | 20 10 3 | | JAN. . | 18 6 6 | 18 9 32 |
| | ○ | { 4 9 18 | 4 19 32 | | FEB. . | 16 18 50 | 16 19 2 |
| | FEB. . | { 19 3 40 | 19 2 43 | | MAR. . | 17 7 31 | 17 4 7 |
| | MAR. . | 20 16 24 | 20 19 31 | | APRIL | 15 20 18 | 15 13 30 |
| | APRIL | 19 5 8 | 19 11 32 | | MAY . | { 15 9 2 | 15 0 2 |
| | MAY . | 18 17 52 | 19 2 3 | | ○ | { 30 3 24 | 30 11 36 |
| | JUNE . | 17 6 36 | 17 14 42 | | JUNE . | 13 21 46 | 13 12 26 |
| | JULY . | { 16 19 20 | 17 1 40 | | JULY . | 13 10 30 | 13 2 58 |
| | ○ | { 31 13 42 | 31 0 35 | | AUG. . | 11 23 14 | 11 19 18 |
| | AUG. . | 15 8 4 | 15 11 35 | | SEPT. . | 10 11 58 | 10 12 36 |
| | SEPT. . | 13 20 48 | 13 21 11 | | OCT. . | 10 0 42 | 10 5 51 |
| | OCT. . | 13 9 32 | 13 7 9 | | NOV. . | { 8 13 26 | 8 22 3 |
| | NOV. . | 11 22 16 | 11 17 47 | | ○ | { 23 7 48 | 22 21 53 |
| | DEC. . | 11 11 0 | 11 5 14 | | DEC. . | 8 2 10 | 8 12 32 |
| 811. A. 29 16 30 | JAN. . | { 9 23 44 | 9 17 32 | 808. D. 29 9 57 | JAN. . | 6 14 54 | 7 0 58 |
| | ○ | { 24 18 6 | 25 7 37 | | FEB. . | 5 3 38 | 5 11 25 |
| | FEB. . | 8 12 28 | 8 6 45 | | MAR. . | 6 16 23 | 6 20 16 |
| | MAR. . | 10 1 13 | 9 20 59 | | APRIL | 5 5 7 | 5 4 7 |
| | APRIL | 8 13 57 | 8 12 2 | | MAY . | { 4 17 51 | 4 11 51 |
| | MAY . | 8 2 41 | 8 3 32 | | ○ | { 19 12 13 | 19 21 55 |
| | JUNE . | 6 15 25 | 6 18 50 | | JUNE . | 3 6 35 | 2 20 31 |
| | JULY . | { 6 4 9 | 6 9 19 | | JULY . | 2 19 19 | { 2 7 8 |
| | ○ | { 20 22 31 | 20 10 45 | | | | { 31 20 23 |
| | AUG. . | 4 16 53 | 4 22 40 | | AUG. . | { 30 20 47 | 30 12 22 |
| | SEPT. . | 3 5 37 | 3 10 56 | | SEPT. . | 29 9 31 | 29 6 24 |
| | OCT. . | 2 18 21 | 2 22 28 | | OCT. . | 23 22 15 | 29 1 16 |
| | NOV. . | { 1 7 5 | 1 9 34 | | ○ | { 12 16 37 | 12 9 43 |
| | DEC. . | { 30 19 49 | 30 20 30 | | NOV. . | { 27 10 59 | 27 19 23 |
| | | 30 8 33 | 30 7 15 | | DEC. . | 26 23 43 | 27 11 46 |
| 810. G. 29 22 19 | JAN. . | 28 21 17 | 28 17 57 | 807. C. 29 15 46 | JAN. . | 25 12 27 | 26 1 26 |
| | FEB. . | 27 10 1 | 27 4 51 | | FEB. . | 24 1 11 | 24 12 23 |
| | MAR. . | 28 22 46 | 28 16 30 | | MAR. . | 25 13 56 | 25 21 7 |
| | APRIL | 27 11 30 | 27 5 19 | | APRIL | 24 2 40 | 24 4 23 |
| | MAY . | 27 0 14 | 26 19 29 | | ○ | { 8 21 2 | 9 1 5 |
| | JUNE . | 25 12 58 | 25 10 47 | | MAY . | { 23 15 24 | 23 11 13 |
| | ○ | { 10 7 20 | 10 2 33 | | JUNE . | 22 4 8 | 21 18 41 |
| | JULY . | { 25 1 42 | 25 2 36 | | JULY . | 21 16 52 | 21 3 54 |
| | AUG. . | 23 14 26 | 23 18 15 | | AUG. . | 20 5 36 | 19 15 48 |
| | SEPT. . | 22 3 10 | 22 9 7 | | SEPT. . | 18 18 20 | 18 6 47 |
| | OCT. . | 21 15 54 | 21 22 56 | | OCT. . | 18 7 4 | 18 0 30 |
| | NOV. . | 20 4 38 | 20 11 36 | | ○ | { 2 1 26 | 2 1 17 |
| | DEC. . | 19 17 22 | 19 23 7 | | NOV. . | { 16 19 48 | 16 19 52 |
| | | | | | DEC. . | 16 8 32 | 16 15 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 806. B. March. <i>d. h. m.</i> 29 21 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 803. E. March. <i>d. h. m.</i> 29 15 1 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 14 21 16 | 15 8 58 | | JAN. . | 11 12 25 | 11 6 6 |
| | FEB. . | 13 10 0 | 13 23 58 | | FEB. . | { 10 1 9 | 9 22 4 |
| | MAR. . | 14 22 44 | 15 11 52 | | ○ | { 24 19 31 | 25 4 15 |
| | APRIL | 13 11 28 | 13 21 6 | | MAR. . | 11 13 54 | 11 14 39 |
| | MAY . | 18 0 12 | 13 4 30 | | APRIL | 10 2 33 | 10 7 1 |
| | JUNE . | 11 12 56 | 11 11 9 | | MAY . | 9 15 22 | 9 22 19 |
| | JULY . | 11 1 40 | 10 18 11 | | JUNE . | 8 4 6 | 8 11 59 |
| | AUG. . | 9 14 24 | 9 2 37 | | JULY . | 7 16 50 | 7 23 56 |
| | SEPT. . | 8 3 8 | 7 13 25 | | AUG. . | { 6 5 34 | 6 10 32 |
| | OCT. . | 7 15 52 | 7 3 7 | | ○ | { 20 23 56 | 20 11 15 |
| | NOV. . | 6 4 36 | 5 19 42 | | SEPT. . | 4 18 18 | 4 20 28 |
| | DEC. . | 5 17 20 | 5 14 22 | | OCT. . | 4 7 2 | 4 6 25 |
| | | | | | NOV. . | 2 19 46 | 2 16 51 |
| | | | | | DEC. . | { 2 8 30 | 2 3 53 |
| 805. A.G. 29 3 23 | JAN. . | 4 6 4 | 4 9 42 | 802. D. 29 20 50 | JAN. . | 30 9 58 | 30 4 6 |
| | FEB. . | 2 18 48 | 3 4 7 | | FEB. . | 28 22 43 | 28 17 30 |
| | MAR. . | { 3 7 33 | 3 20 15 | | MAR. . | 30 11 27 | 30 7 53 |
| | ○ | { 18 1 55 | 17 20 49 | | APRIL | 29 0 11 | 28 23 2 |
| | APRIL | 1 20 17 | 2 5 26 | | MAY . | 28 12 55 | 28 14 27 |
| | MAY . | { 1 9 1 | 1 19 47 | | JUNE . | 27 1 39 | 27 5 30 |
| | JUNE . | { 30 21 45 | 31 4 4 | | JULY . | 26 14 23 | 26 19 41 |
| | JULY . | 29 10 29 | 29 11 18 | | AUG. . | 25 3 7 | 25 8 46 |
| | AUG. . | 27 11 57 | 27 2 58 | | SEPT. . | 23 15 51 | 23 20 55 |
| | ○ | { 11 6 19 | 11 9 31 | | OCT. . | 23 4 35 | 23 8 26 |
| | SEPT. . | { 26 0 41 | 25 13 8 | | NOV. . | 21 17 19 | 21 19 33 |
| | OCT. . | 25 13 25 | 25 1 40 | | DEC. . | 21 6 3 | 21 6 22 |
| | NOV. . | 24 2 9 | 23 16 37 | | | | |
| | DEC. . | 23 14 53 | 23 9 35 | | ○ | { 5 0 25 | 5 7 16 |
| 804. F. 29 9 12 | JAN. . | 22 3 37 | 22 3 43 | 801. C.B. 29 2 39 | JAN. . | { 19 18 47 | 19 16 54 |
| | FEB. . | 20 16 21 | 20 21 44 | | FEB. . | 18 7 31 | 18 3 23 |
| | ○ | { 7 10 43 | 7 11 49 | | MAR. . | 18 20 15 | 18 14 19 |
| | MAR. . | { 22 5 5 | 22 14 24 | | APRIL | 17 8 59 | 17 2 13 |
| | APRIL | 20 17 49 | 21 4 50 | | MAY . | 16 21 43 | 16 15 31 |
| | MAY . | 20 6 33 | 20 16 48 | | JUNE . | { 15 10 27 | 15 6 15 |
| | JUNE . | 18 19 17 | 19 2 39 | | ○ | { 30 4 49 | 30 2 50 |
| | JULY . | 18 8 1 | 18 11 14 | | JULY . | 14 23 11 | 14 21 59 |
| | AUG. . | { 16 20 45 | 16 19 32 | | AUG. . | 13 11 55 | 13 14 1 |
| | ○ | { 31 15 7 | 31 9 52 | | SEPT. . | 12 0 39 | 12 5 37 |
| | SEPT. . | 15 9 29 | 15 4 25 | | OCT. . | 11 13 23 | 11 20 17 |
| | OCT. . | 14 22 13 | 14 14 29 | | NOV. . | 10 2 7 | 10 9 45 |
| | NOV. . | 13 10 57 | 13 2 5 | | DEC. . | { 9 14 51 | 9 21 56 |
| | DEC. . | 12 23 41 | 12 15 19 | | ○ | { 24 9 13 | 24 6 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 800. A. March. d. h. m. 29 8 28 | | d. h. m. | d. h. m. | B.C. 797. E.D. March. d. h. m. 29 1 54 | | d. h. m. | d. h. m. |
| | JAN. . | 8 8 35 | 8 8 49 | | JAN. . | 5 18 45 | 6 4 20 |
| | FEB. . | 6 16 19 | 6 18 35 | | FEB. . | 4 7 29 | 4 20 45 |
| | MAR. . | 8 5 4 | 8 8 35 | | MAR. . | 4 20 14 | 5 10 9 |
| | APRIL . | 6 17 48 | 6 12 28 | | APRIL . | 8 8 58 | 8 20 33 |
| | MAY . | 6 6 32 | 5 22 6 | | ○ | 18 8 20 | 17 22 2 |
| | JUNE . | 4 19 16 | 4 9 22 | | MAY . | 2 21 42 | 3 4 41 |
| | ○ | 19 18 38 | 19 19 22 | | JUNE . | 1 10 26 | 1 11 34 |
| | JULY . | 4 8 0 | 3 22 47 | | ○ | 30 23 10 | 30 18 20 |
| | AUG. . | 2 20 44 | 2 14 23 | | JULY . | 30 11 54 | 30 2 2 |
| | SEPT. . | 1 9 28 | 1 7 30 | | AUG. . | 29 0 38 | 28 11 39 |
| | ○ | 30 22 12 | 1 1 9 | | SEPT. . | 27 18 22 | 26 23 57 |
| | OCT. . | 30 10 56 | 30 18 14 | | ○ | 12 7 44 | 12 14 5 |
| | NOV. . | 23 23 40 | 29 9 48 | | OCT. . | 27 2 6 | 26 15 10 |
| | ○ | 13 18 2 | 13 9 40 | | NOV. . | 25 14 50 | 25 8 58 |
| | DEC. . | 23 12 24 | 23 23 21 | | DEC. . | 25 3 34 | 25 3 59 |
| 799. G. 29 14 16 | JAN. . | 27 1 8 | 27 10 40 | 796. C. 29 7 48 | JAN. . | 23 16 18 | 23 22 57 |
| | FEB. . | 25 13 52 | 25 20 6 | | FEB. . | 22 5 2 | 22 16 13 |
| | MAR. . | 27 2 37 | 27 4 11 | | MAR. . | 23 17 47 | 24 6 50 |
| | APRIL . | 25 15 21 | 25 11 40 | | ○ | 7 12 9 | 7 5 39 |
| | MAY . | 25 4 5 | 24 19 37 | | APRIL . | 22 6 31 | 22 18 32 |
| | JUNE . | 23 16 49 | 23 5 4 | | MAY . | 21 19 15 | 22 3 45 |
| | JULY . | 23 5 33 | 22 16 57 | | JUNE . | 20 7 59 | 20 11 23 |
| | AUG. . | 21 18 17 | 21 7 40 | | JULY . | 19 30 43 | 19 18 44 |
| | SEPT. . | 20 7 1 | 20 0 56 | | AUG. . | 18 9 27 | 18 2 38 |
| | OCT. . | 19 19 45 | 19 19 43 | | SEPT. . | 16 22 11 | 16 11 58 |
| | NOV. . | 18 8 29 | 18 14 36 | | ○ | 1 16 33 | 1 21 37 |
| | DEC. . | 17 21 13 | 18 8 4 | | OCT. . | 16 10 55 | 15 23 21 |
| 798. F. 29 20 5 | JAN. . | 16 9 57 | 16 23 6 | 795. B. 29 13 32 | JAN. . | 13 1 7 | 12 22 30 |
| | FEB. . | 14 22 41 | 15 11 18 | | FEB. . | 11 13 51 | 11 13 30 |
| | MAR. . | 16 11 25 | 16 20 55 | | MAR. . | 13 2 35 | 13 9 47 |
| | APRIL . | 15 0 9 | 15 4 40 | | APRIL . | 11 15 19 | 12 1 20 |
| | ○ | 29 18 31 | 29 20 35 | | MAY . | 11 4 8 | 11 14 33 |
| | MAY . | 14 12 53 | 14 11 30 | | JUNE . | 9 16 47 | 10 1 29 |
| | JUNE . | 13 1 37 | 12 18 28 | | JULY . | 9 5 31 | 9 10 45 |
| | JULY . | 12 14 21 | 12 2 42 | | AUG. . | 7 18 15 | 7 19 17 |
| | AUG. . | 11 3 5 | 10 13 13 | | SEPT. . | 6 6 59 | 6 4 0 |
| | SEPT. . | 9 15 49 | 9 2 43 | | OCT. . | 5 19 43 | 5 13 36 |
| | ○ | 9 4 33 | 8 19 14 | | NOV. . | 4 8 27 | 4 0 30 |
| | NOV. . | 23 22 55 | 24 0 20 | | DEC. . | 3 21 11 | 3 12 52 |
| | DEC. . | 7 17 17 | 7 14 1 | | | | |
| | | 7 6 1 | 7 9 37 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 794. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 791. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 29 19 20 | JAN. . | { 2 9 55 | 2 2 42 | March. <i>d. h. m.</i> 29 12 47 | JAN. . | 28 13 49 | 28 18 6 |
| | | { 31 22 39 | 31 17 52 | | FEB. . | 27 2 33 | 27 3 12 |
| | FEB. . | { ... | ... | | MAR. . | 28 15 18 | 28 11 50 |
| | ○ | { 15 17 1 | 16 3 46 | | APRIL | 27 4 2 | 26 20 46 |
| | MAR. . | 2 11 24 | 2 9 58 | | MAY . | 26 16 46 | 26 6 57 |
| | | | | | ○ | { 10 11 8 | 10 18 50 |
| | APRIL | { 1 0 8 | 1 2 18 | | JUNE . | { 25 5 30 | 24 19 11 |
| | | { 30 12 52 | 30 18 7 | | JULY . | 24 18 14 | 24 9 45 |
| | MAY . | 30 1 36 | 30 8 41 | | AUG. . | 23 6 58 | 23 2 21 |
| | JUNE . | 28 14 20 | 28 21 38 | | SEPT. . | 21 19 42 | 21 20 7 |
| | JULY . | 23 3 4 | 23 9 5 | | OCT. . | 21 8 26 | 21 13 50 |
| | ○ | { 11 21 26 | 11 7 54 | | NOV. . | 19 21 10 | 20 6 28 |
| 793. G.F. | AUG. . | { 26 15 48 | 26 19 32 | 790. C. | DEC. . | { 4 15 32 | 4 6 28 |
| | SEPT. . | 25 4 32 | 25 5 40 | | JAN. . | 17 22 38 | 18 9 33 |
| | OCT. . | 24 17 16 | 24 15 59 | | FEB. . | 16 11 22 | 16 19 44 |
| | NOV. . | 23 6 0 | 23 2 45 | | MAR. . | 18 0 7 | 18 4 14 |
| | DEC. . | 22 18 44 | 22 14 4 | | APRIL | 16 12 51 | 16 11 41 |
| | JAN. . | 21 7 23 | 21 1 55 | | MAY . | { 16 1 35 | 15 19 11 |
| | ○ | { 5 1 50 | 5 15 41 | | ○ | { 30 19 57 | 31 4 42 |
| | FEB. . | { 19 20 12 | 19 14 34 | | JUNE . | 14 14 19 | 14 3 40 |
| | MAR. . | 20 8 57 | 20 4 10 | | JULY . | 14 3 3 | 13 14 13 |
| | APRIL | 18 21 41 | 18 18 44 | | AUG. . | 12 15 47 | 12 3 33 |
| | MAY . | 18 10 25 | 18 9 58 | | SEPT. . | 11 4 31 | 10 19 44 |
| | JUNE . | 16 23 9 | 17 1 19 | | OCT. . | 10 17 15 | 10 14 4 |
| 792. E. | JULY . | { 16 11 53 | 16 16 10 | 789. B.A. | NOV. . | { 9 5 59 | 9 9 15 |
| | ○ | { 81 6 15 | 30 18 21 | | ○ | { 24 0 21 | 23 18 37 |
| | AUG. . | 15 0 37 | 15 6 5 | | DEC. . | 8 18 43 | 9 3 40 |
| | SEPT. . | 13 13 21 | 13 18 58 | | JAN. . | 7 7 27 | 7 20 3 |
| | OCT. . | 13 2 5 | 13 7 1 | | FEB. . | 5 20 11 | 6 9 38 |
| | NOV. . | 11 14 49 | 11 18 29 | | MAR. . | 6 8 55 | 6 20 21 |
| | DEC. . | 11 3 33 | 11 5 29 | | APRIL | 4 21 39 | 5 4 50 |
| | JAN. . | 9 16 17 | 9 16 1 | | MAY . | { 4 10 23 | 4 11 54 |
| | FEB. . | 8 5 1 | 8 2 16 | | ○ | { 19 4 45 | 19 7 32 |
| | MAR. . | 9 17 45 | 9 12 38 | | JUNE . | 2 23 7 | 2 18 37 |
| | APRIL | 8 6 29 | 7 23 42 | | JULY . | 2 11 51 | { 2 2 4 |
| | MAY . | 7 19 13 | 7 12 3 | | | | { 31 11 22 |
| 29 6 58 | JUNE . | 6 7 57 | 6 1 59 | | AUG. . | { 1 0 35 | 29 23 24 |
| | JULY . | { 5 20 41 | 5 17 20 | | SEPT. . | 29 2 3 | 28 14 31 |
| | ○ | { 20 15 3 | 20 10 13 | | OCT. . | 28 14 47 | 28 8 23 |
| | AUG. . | 4 9 25 | 4 9 23 | | ○ | { 12 9 9 | 12 10 12 |
| | SEPT. . | 2 22 9 | 3 1 39 | | NOV. . | { 27 3 31 | 27 3 49 |
| | | | | | DEC. . | 26 16 15 | 26 23 10 |
| | OCT. . | { 2 10 53 | 2 17 8 | | | | |
| | | { 81 23 37 | { 1 7 28 | | | | |
| | NOV. . | 30 12 21 | 30 20 26 | | | | |
| | DEC. . | 30 1 5 | 30 7 56 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 788. G. March. <i>d. h. m.</i> 29 6 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 785. D.C. March. <i>d. h. m.</i> 28 23 40 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 25 4 59 | 25 16 49 | | JAN. . | 22 20 9 | 22 14 10 |
| | FEB. . | 23 17 43 | 24 7 41 | | FEB. . | 21 8 53 | 21 5 33 |
| | MAR. . | 25 6 28 | 25 19 27 | | ○ | { 7 3 15 | 7 12 28 |
| | APRIL | 23 19 12 | 24 4 33 | | MAR. . | { 21 21 38 | 21 21 35 |
| | MAY . | 23 7 56 | 23 11 56 | | APRIL | 20 10 22 | 20 13 37 |
| | JUNE . | 21 20 40 | 21 18 39 | | MAY . | 19 23 6 | 20 4 51 |
| | JULY . | 21 9 24 | 21 1 49 | | JUNE . | 18 11 50 | 18 18 45 |
| | AUG. . | 19 22 8 | 19 10 30 | | JULY . | 18 0 34 | 18 7 8 |
| | SEPT. . | 18 10 52 | 17 21 30 | | AUG. . | { 16 13 18 | 16 18 16 |
| | OCT. . | 17 23 36 | 17 11 19 | | ○ | { 31 7 40 | 30 18 44 |
| | NOV. . | 16 12 20 | 16 3 52 | | SEPT. . | 15 2 2 | 15 4 45 |
| | DEC. . | 16 1 4 | 15 22 21 | | OCT. . | 14 14 46 | 14 15 9 |
| | | | | | NOV. . | 13 3 30 | 13 1 48 |
| | | | | | DEC. . | 12 16 14 | 12 12 47 |
| 787. F. 29 12 2 | JAN. . | 14 13 48 | 14 17 26 | 784. B. 29 5 29 | JAN. . | 11 4 58 | 11 0 11 |
| | FEB. . | 13 2 32 | 13 11 35 | | FEB. . | 9 17 42 | 9 12 9 |
| | MAR. . | { 14 15 16 | 15 3 29 | | MAR. . | 11 6 26 | 11 0 55 |
| | ○ | { 29 9 38 | 29 4 24 | | APRIL | 9 19 10 | 9 14 45 |
| | APRIL | 13 4 0 | 13 16 35 | | MAY . | 9 7 54 | 9 5 32 |
| | MAY . | 12 16 44 | 13 2 58 | | JUNE . | 7 20 38 | 7 20 55 |
| | JUNE . | 11 5 28 | 11 11 24 | | JULY . | 7 9 22 | 7 12 12 |
| | JULY . | 10 18 12 | 10 18 52 | | AUG. . | 5 22 6 | 6 2 50 |
| | AUG. . | 9 6 56 | 9 2 30 | | SEPT. . | 4 10 50 | 4 16 31 |
| | SEPT. . | { 7 19 40 | 7 11 11 | | OCT. . | 3 23 34 | 4 5 16 |
| | ○ | { 22 14 2 | 22 17 8 | | NOV. . | 2 12 18 | 2 17 12 |
| | OCT. . | 7 8 24 | 6 21 33 | | DEC. . | { 2 1 2 | 2 4 30 |
| | NOV. . | 5 21 8 | 5 10 12 | | | { 31 13 46 | 31 15 12 |
| | DEC. . | 5 9 52 | 5 0 59 | | | | |
| 786. E. 29 17 51 | JAN. . | 3 22 36 | 3 17 37 | 783. A. 29 11 17 | ○ | { 15 8 8 | 15 15 1 |
| | FEB. . | 2 11 20 | 2 11 16 | | JAN. . | { 30 2 30 | 30 1 23 |
| | MAR. . | { 4 0 5 | 4 4 52 | | FEB. . | 28 15 15 | 28 11 24 |
| | ○ | { 18 18 27 | 18 19 45 | | MAR. . | 30 3 59 | 29 21 44 |
| | APRIL | 2 12 49 | 2 21 15 | | APRIL | 28 16 43 | 28 9 8 |
| | MAY . | { 2 1 33 | 2 11 33 | | MAY . | 28 5 27 | 27 22 7 |
| | | { 31 14 17 | 31 23 45 | | JUNE . | 26 18 11 | 26 12 47 |
| | JUNE . | 30 3 1 | 30 9 54 | | ○ | { 11 12 33 | 11 10 26 |
| | JULY . | 29 15 45 | 29 18 54 | | JULY . | { 26 6 55 | 26 4 44 |
| | AUG. . | 23 4 29 | 23 3 39 | | AUG. . | 24 19 39 | 24 21 13 |
| | ○ | { 11 22 51 | 11 17 11 | | SEPT. . | 23 8 23 | 23 13 25 |
| | SEPT. . | { 26 17 13 | 26 12 56 | | OCT. . | 22 21 7 | 23 4 39 |
| | OCT. . | 26 5 57 | 25 23 16 | | NOV. . | 21 9 51 | 21 18 30 |
| | NOV. . | 24 18 41 | 24 10 54 | | DEC. . | 20 22 35 | 21 6 46 |
| | DEC. . | 24 7 25 | 23 23 52 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 782. a. March. d. h. m. 29 17 6 | | d. h. m. | d. h. m. | B.C. 779. c. March. d. h. m. 29 10 33 | | d. h. m. | d. h. m. |
| | ○ | { 4 16 57 | 4 14 25 | | JAN. . | 16 2 29 | 16 12 12 |
| | JAN. . | { 19 11 19 | 19 17 30 | | FEB. . | 14 15 13 | 15 4 28 |
| | FEB. . | 18 0 3 | 18 2 55 | | MAR. . | 16 3 58 | 16 17 43 |
| | MAR. . | 19 12 48 | 19 11 28 | | APRIL | { 14 16 42 | 15 4 0 |
| | APRIL | 18 1 32 | 17 19 55 | | ○ | { 29 11 4 | 29 4 25 |
| | MAY . | 17 14 16 | 17 5 11 | | MAY . | 14 5 26 | 14 12 6 |
| | JUNE . | { 16 3 0 | 15 16 12 | | JUNE . | 12 18 10 | 12 19 1 |
| | ○ | { 80 21 22 | { 1 2 44 | | JULY . | 12 6 54 | 12 1 55 |
| | JULY . | 15 15 44 | 15 5 35 | | AUG. . | 10 19 38 | 10 9 52 |
| | AUG. . | 14 4 28 | 13 21 21 | | SEPT. . | 9 8 22 | 8 19 43 |
| | SEPT. . | 12 17 12 | 12 14 50 | | OCT. . | { 8 21 6 | 8 8 11 |
| | OCT. . | 12 5 56 | 12 8 58 | | ○ | { 23 15 28 | 23 22 36 |
| | NOV. . | 10 18 40 | 11 2 29 | | NOV. . | 7 9 50 | 6 23 25 |
| | DEC. . | { 10 7 24 | 10 18 21 | | DEC. . | 6 22 34 | 6 16 59 |
| 781. F.E. 28 22 55 | ○ | { 25 1 46 | 24 18 4 | 778. B. 29 16 22 | JAN. . | 5 11 18 | 5 11 50 |
| | JAN. . | 8 20 8 | 9 7 54 | | FEB. . | 4 0 2 | 4 6 27 |
| | FEB. . | 7 8 52 | 7 19 5 | | MAR. . | 5 12 46 | 5 23 29 |
| | MAR. . | 7 21 36 | 8 4 11 | | APRIL | { 4 1 30 | 4 13 56 |
| | APRIL | 6 10 20 | 6 11 55 | | ○ | { 18 19 52 | 18 12 56 |
| | MAY . | 5 23 4 | 5 19 6 | | MAY . | 3 14 14 | 4 1 38 |
| | JUNE . | 4 11 48 | 4 2 50 | | JUNE . | 2 2 58 | 2 10 59 |
| | JULY . | 4 0 32 | 3 12 12 | | JULY . | { 1 15 42 | 1 18 55 |
| | AUG. . | 2 13 16 | { 2 0 7 | | ○ | { 31 4 26 | 31 2 31 |
| | SEPT. . | { 1 2 0 | { 31 14 59 | | AUG. . | 29 17 10 | 29 10 45 |
| | ○ | { 30 14 44 | 30 8 30 | | SEPT. . | 28 5 54 | 27 20 24 |
| | OCT. . | 30 3 28 | 30 3 35 | | ○ | { 13 0 16 | 13 5 33 |
| | NOV. . | 28 16 12 | 28 22 42 | | OCT. . | { 27 18 38 | 27 7 57 |
| | DEC. . | 28 4 56 | 28 16 16 | | NOV. . | 26 7 22 | 25 21 36 |
| | | | | | DEC. . | 25 20 6 | 25 13 13 |
| 780. D. 29 4 44 | JAN. . | 26 17 40 | 27 7 15 | 777. A.G. 28 22 10 | JAN. . | 24 8 50 | 24 6 14 |
| | FEB. . | 25 6 24 | 25 19 18 | | FEB. . | 22 21 34 | 22 23 45 |
| | MAR. . | 26 19 9 | 27 4 43 | | MAR. . | 23 10 19 | 23 16 42 |
| | APRIL | 25 7 53 | 25 12 15 | | APRIL | 21 23 3 | 22 8 6 |
| | ○ | { 10 2 15 | 10 3 3 | | MAY . | 21 11 47 | 21 21 23 |
| | MAY . | { 24 20 37 | 24 18 56 | | JUNE . | 20 0 31 | 20 8 35 |
| | JUNE . | 23 9 21 | 23 1 53 | | JULY . | 19 13 15 | 19 18 16 |
| | JULY . | 22 22 5 | 22 10 11 | | AUG. . | 18 1 59 | 18 3 15 |
| | AUG. . | 21 10 49 | 20 20 50 | | SEPT. . | 16 14 43 | 16 12 24 |
| | SEPT. . | 19 23 33 | 19 10 30 | | OCT. . | 16 3 27 | 15 22 20 |
| | OCT. . | 19 12 17 | 19 3 8 | | NOV. . | 14 16 11 | 14 9 20 |
| | ○ | { 3 6 39 | 3 9 12 | | DEC. . | 14 4 55 | 13 21 34 |
| | NOV. . | { 18 1 1 | 17 22 0 | | | | |
| | DEC. . | 17 18 45 | 17 17 35 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 776. F. March. <i>d. h. m.</i> 29 3 59 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 773. C.B. March. <i>d. h. m.</i> 23 21 26 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 12 17 39 | 12 10 59 | | JAN. . | 10 8 49 | 10 16 41 |
| | FEB. . | { 11 6 23 | 11 1 34 | | FEB. . | 8 21 33 | 9 2 34 |
| | ○ | { 26 0 45 | 26 11 53 | | MAR. . | 9 10 17 | 9 11 16 |
| | MAR. . | 12 19 7 | 12 17 4 | | APRIL | 7 23 1 | 7 19 25 |
| | APRIL | 11 7 51 | 11 8 58 | | MAY . | 7 11 45 | 7 3 57 |
| | MAY . | 10 20 35 | 11 0 37 | | JUNE . | { 6 0 29 | 5 13 53 |
| | JUNE . | 9 9 19 | 9 15 18 | | ○ | { 20 18 51 | 21 2 3 |
| | JULY . | 8 22 3 | 9 4 36 | | JULY . | 5 13 13 | 5 2 0 |
| | AUG. . | { 7 10 47 | 7 16 34 | | AUG. . | 4 1 57 | 3 16 39 |
| | ○ | { 22 5 9 | 21 15 21 | | SEPT. . | 2 14 41 | 2 9 32 |
| | SEPT. . | 5 23 31 | 6 3 36 | | OCT. . | { 2 3 25 | 2 3 42 |
| | OCT. . | 5 12 15 | 5 14 14 | | ○ | { 31 16 9 | 31 21 54 |
| | NOV. . | 4 0 59 | 4 0 52 | | NOV. . | 30 4 53 | 30 14 51 |
| | DEC. . | 3 13 43 | 3 11 42 | | ○ | { 14 23 15 | 14 15 0 |
| | | | | | DEC. . | { 29 17 37 | 30 5 40 |
| 775. E. | JAN. . | { 2 2 27 | 1 22 47 | 772. A. | JAN. . | 23 6 21 | 23 17 57 |
| | FEB. . | { 31 15 11 | 31 10 12 | | FEB. . | 26 19 5 | 27 3 54 |
| | ○ | { ... | ... | | MAR. . | 23 7 50 | 23 12 5 |
| | MAR. . | { 15 9 33 | 15 23 32 | | APRIL | 26 20 34 | 26 19 17 |
| | | { 2 3 56 | 1 22 15 | | MAY . | 26 9 18 | 26 2 30 |
| | APRIL | { 31 16 40 | 31 11 15 | | ○ | { 10 3 40 | 10 11 28 |
| | MAY . | 30 5 24 | 30 1 21 | | JUNE . | { 24 22 2 | 24 10 52 |
| | JUNE . | 29 18 8 | 29 16 25 | | JULY . | 24 10 46 | 23 21 25 |
| | JULY . | 28 6 52 | 28 7 52 | | AUG. . | 22 23 30 | 22 10 52 |
| | ○ | { 11 13 58 | 11 2 6 | | SEPT. . | 21 12 14 | 21 3 13 |
| | AUG. . | { 26 8 20 | 26 13 34 | | OCT. . | 21 0 58 | 20 21 50 |
| | SEPT. . | 24 21 4 | 25 3 5 | | NOV. . | 19 13 42 | 19 17 14 |
| | OCT. . | 24 9 48 | 24 15 39 | | ○ | { 4 8 4 | 4 3 31 |
| | NOV. . | 22 22 32 | 23 3 23 | | DEC. . | { 19 2 26 | 19 11 49 |
| | DEC. . | 22 11 16 | 22 14 23 | | | | |
| 774. D. | JAN. . | 21 0 0 | 21 0 40 | 771. G. | JAN. . | 17 15 10 | 18 4 12 |
| | FEB. . | 19 12 44 | 19 10 28 | | FEB. . | 16 3 54 | 16 17 38 |
| | MAR. . | 21 1 29 | 20 20 17 | | MAR. . | 17 16 39 | 18 4 11 |
| | APRIL | 19 14 13 | 19 6 50 | | APRIL | 16 5 23 | 16 12 27 |
| | MAY . | 19 2 57 | 18 18 48 | | MAY . | { 15 18 7 | 15 19 22 |
| | JUNE . | 17 15 41 | 17 8 34 | | ○ | { 30 12 29 | 30 14 0 |
| | JULY . | { 17 4 25 | 16 23 59 | | JUNE . | 14 6 51 | 14 2 2 |
| | ○ | { 31 22 47 | 31 18 2 | | JULY . | 13 19 35 | 13 9 31 |
| | AUG. . | 15 17 9 | 15 16 29 | | AUG. . | 12 8 19 | 11 19 0 |
| | SEPT. . | 14 5 53 | 14 9 12 | | SEPT. . | 10 21 3 | 10 7 11 |
| | OCT. . | 13 18 37 | 14 1 15 | | OCT. . | 10 9 47 | 9 22 26 |
| | NOV. . | 12 7 21 | 12 16 3 | | NOV. . | { 8 22 31 | 8 16 22 |
| | DEC. . | 11 20 5 | 12 5 13 | | ○ | { 23 16 53 | 23 19 10 |
| | | | | | DEC. . | 8 11 15 | 8 11 47 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 770. F. March. <i>d. h. m.</i> 29 14 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 767. B. March. <i>d. h. m.</i> 29 8 19 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 6 23 59 | 7 7 2 | | JAN. . | 3 15 9 | 3 8 23 |
| | FEB. . | 5 12 48 | 6 0 32 | | FEB. . | 2 3 53 | 1 22 7 |
| | MAR. . | 7 1 27 | 7 15 14 | | MAR. . | { 3 16 37 | 3 12 53 |
| | APRIL | 5 14 11 | 6 2 52 | | ○ | { 18 10 59 | 18 21 38 |
| | MAY . | 5 2 55 | 5 11 55 | | APRIL | 2 5 21 | 2 4 24 |
| | JUNE . | 3 15 39 | 3 19 19 | | MAY . | { 1 18 5 | 1 20 8 |
| | JULY . | 3 4 23 | 3 2 11 | | | { 31 6 49 | 31 11 22 |
| | AUG. . | { 1 17 7 | 1 9 36 | | JUNE . | 29 19 33 | 30 1 31 |
| | | { 31 5 51 | 30 18 32 | | JULY . | 29 8 17 | 29 14 22 |
| | SEPT. . | 29 18 35 | 29 5 44 | | AUG. . | 27 21 1 | 28 2 6 |
| | OCT. . | 29 7 19 | 28 19 37 | | ○ | { 11 15 23 | 11 2 21 |
| | NOV. . | 27 20 3 | 27 12 3 | | SEPT. . | { 26 9 45 | 26 13 8 |
| | DEC. . | 27 8 47 | 27 6 17 | | OCT. . | 25 22 29 | 25 23 56 |
| | | | | | NOV. . | 24 11 13 | 24 10 44 |
| | | | | | DEC. . | 23 23 57 | 23 21 38 |
| 769. E.D. 28 20 41 | JAN. . | 25 21 31 | 26 1 2 | 766. A. 29 14 8 | JAN. . | 22 12 41 | 22 8 40 |
| | FEB. . | 24 10 15 | 24 18 52 | | FEB. . | 21 1 25 | 20 20 5 |
| | MAR. . | 24 23 0 | 25 10 36 | | MAR. . | 22 14 10 | 22 8 16 |
| | ○ | { 8 17 22 | 8 11 54 | | APRIL | 21 2 54 | 20 21 33 |
| | APRIL | { 23 11 44 | 23 23 38 | | MAY . | 20 15 38 | 20 12 3 |
| | MAY . | 23 0 23 | 23 10 7 | | JUNE . | 19 4 22 | 19 3 23 |
| | JUNE . | 21 13 12 | 21 18 45 | | JULY . | 18 17 6 | 18 18 56 |
| | JULY . | 21 1 56 | 21 2 33 | | AUG. . | 17 5 50 | 17 10 6 |
| | AUG. . | 19 14 40 | 19 10 33 | | SEPT. . | 15 18 34 | 16 0 25 |
| | SEPT. . | 18 3 24 | 17 19 35 | | OCT. . | 15 7 18 | 15 13 43 |
| | ○ | { 2 21 46 | 3 0 52 | | NOV. . | 13 20 2 | 14 2 2 |
| | OCT. . | { 17 16 8 | 17 6 14 | | DEC. . | 13 8 46 | 13 13 27 |
| | NOV. . | 16 4 52 | 15 18 50 | | | | |
| | DEC. . | 15 17 36 | 15 9 23 | | | | |
| 768. C. 29 2 80 | JAN. . | 14 6 20 | 14 1 33 | 765. G.F. 28 19 56 | JAN. . | { 11 21 30 | 11 23 58 |
| | FEB. . | 12 19 4 | 12 18 42 | | ○ | { 26 15 52 | 26 22 40 |
| | MAR. . | { 14 7 49 | 14 11 51 | | FEB. . | 10 10 14 | 10 9 47 |
| | ○ | { 29 2 11 | 29 3 35 | | MAR. . | 10 22 59 | 10 19 17 |
| | APRIL | 12 20 33 | 13 3 59 | | APRIL | 9 11 43 | 9 5 5 |
| | MAY . | 12 9 17 | 12 18 23 | | MAY . | 9 0 27 | 8 16 4 |
| | JUNE . | 10 22 1 | 11 6 41 | | JUNE . | 7 13 11 | 7 4 46 |
| | JULY . | 10 10 45 | 10 17 14 | | JULY . | { 7 1 55 | 6 19 25 |
| | AUG. . | 8 23 29 | 9 2 41 | | ○ | { 21 20 17 | 21 18 8 |
| | SEPT. . | { 7 12 13 | 7 11 55 | | AUG. . | 5 14 39 | 5 11 35 |
| | ○ | { 22 6 35 | 22 0 38 | | SEPT. . | 4 3 23 | 4 4 33 |
| | OCT. . | 7 0 57 | 6 21 36 | | OCT. . | 3 16 7 | 3 21 19 |
| | NOV. . | 5 13 41 | 5 8 8 | | NOV. . | 2 4 51 | 2 13 4 |
| | DEC. . | 5 2 25 | 4 19 43 | | DEC. . | { 1 17 35 | 2 3 13 |
| | | | | | | { 31 6 19 | 31 15 32 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 764. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 761. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. March. d. h. m. 29 1 45 | ○ | { 15 0 41 | 14 22 11 | H.A. March. d. h. m. 29 19 12 | JAN. . | 27 10 12 | 27 19 55 |
| | JAN. . | { 29 19 8 | 30 2 4 | | FEB. . | 25 22 56 | 26 12 1 |
| | FEB. . | 28 7 47 | 28 11 7 | | MAR. . | 26 11 41 | 27 1 7 |
| | MAR. . | 29 20 31 | 29 19 14 | | APRIL . | 25 0 25 | 25 11 20 |
| | APRIL . | 28 9 15 | 28 8 16 | | MAY . | 24 18 9 | 24 19 20 |
| | MAY . | 27 21 59 | 27 12 14 | | JUNE . | 23 1 53 | 23 2 30 |
| | JUNE . | 26 10 48 | 25 28 5 | | JULY . | 22 14 37 | 22 9 38 |
| | ○ | { 11 5 6 | 11 10 10 | | AUG. . | 21 8 21 | 20 17 50 |
| | JULY . | { 25 28 27 | 25 12 29 | | SEPT. . | 19 16 5 | 19 8 56 |
| | AUG. . | 24 12 11 | 24 4 26 | | OCT. . | 19 4 49 | 18 16 32 |
| | SEPT. . | 28 0 55 | 22 22 17 | | ○ | { 2 23 11 | 3 7 9 |
| | OCT. . | 22 18 39 | 22 16 52 | | NOV. . | { 17 17 33 | 17 7 42 |
| | NOV. . | 21 2 28 | 21 10 44 | | DEC. . | 17 6 17 | 17 1 8 |
| | DEC. . | 20 15 7 | 21 2 47 | | | | |
| 763. | ○ | { 4 9 29 | 4 2 23 | 760. | JAN. . | 15 19 1 | 15 19 32 |
| D. | JAN. . | { 19 8 51 | 19 16 20 | G. | FEB. . | 14 7 45 | 14 13 49 |
| 29 7 31 | FEB. . | 17 16 35 | 18 8 18 | 29 1 1 | MAR. . | 15 20 30 | 16 6 36 |
| | MAR. . | 19 5 20 | 19 12 8 | | APRIL . | 14 9 14 | 14 20 58 |
| | APRIL . | 17 18 4 | 17 19 32 | | ○ | { 29 8 36 | 29 19 47 |
| | MAY . | 17 6 48 | 17 2 30 | | MAY . | 13 21 54 | 14 4 40 |
| | JUNE . | 15 19 32 | 15 10 6 | | JUNE . | 12 10 42 | 12 18 13 |
| | JULY . | 15 8 16 | 14 19 27 | | JULY . | 11 23 26 | 12 2 28 |
| | AUG. . | 18 21 0 | 18 7 27 | | AUG. . | 10 12 10 | 10 10 26 |
| | SEPT. . | 12 9 44 | 11 22 29 | | SEPT. . | 9 0 54 | 8 19 3 |
| | OCT. . | 11 22 28 | 11 16 18 | | OCT. . | { 8 18 38 | 8 4 59 |
| | NOV. . | 10 11 12 | 10 11 31 | | ○ | { 23 8 0 | 23 13 36 |
| | DEC. . | 9 28 56 | 10 6 46 | | NOV. . | 7 2 22 | 6 16 39 |
| 762. | | | | 759. | DEC. . | 6 15 6 | 6 6 9 |
| C. | JAN. . | 8 12 40 | 9 0 23 | F. | JAN. . | 5 3 50 | 4 21 23 |
| 29 18 23 | FEB. . | 7 1 24 | 7 15 17 | 29 6 49 | FEB. . | 3 16 34 | 3 13 52 |
| | MAR. . | 8 14 8 | 9 3 8 | | MAR. . | 5 5 18 | 5 0 53 |
| | APRIL . | 7 2 52 | 7 12 20 | | APRIL . | 3 18 2 | 3 23 29 |
| | MAY . | { 6 15 36 | 6 19 44 | | MAY . | 3 6 46 | 3 14 46 |
| | ○ | { 21 9 53 | 21 9 30 | | JUNE . | 1 19 30 | 2 4 9 |
| | JUNE . | 5 4 20 | 5 2 23 | | JULY . | { 1 8 14 | 1 15 42 |
| | JULY . | 4 17 4 | 4 9 22 | | | { 30 20 58 | 31 1 49 |
| | AUG. . | 3 5 48 | 2 17 43 | | AUG. . | 29 9 42 | 29 11 19 |
| | SEPT. . | 1 18 32 | { 1 4 37 | | SEPT. . | 27 22 26 | 27 20 55 |
| | | | { 30 18 25 | | OCT. . | 27 11 10 | 27 7 9 |
| | OCT. . | { 1 7 16 | | | NOV. . | 25 23 54 | 25 18 14 |
| | ○ | { 30 20 0 | 30 11 8 | | DEC. . | 25 12 38 | 25 6 14 |
| | NOV. . | { 14 14 22 | 14 18 6 | | | | |
| | DEC. . | 23 21 28 | 29 1 27 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 758. E. March. d. h. m. 29 12 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 755. A. March. d. h. m. 29 6 5 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 24 1 22 | 23 19 11 | | JAN. . | 20 16 32 | 21 1 17 |
| | FEB. . | 22 14 6 | 22 9 10 | | FEB. . | 19 5 16 | 19 10 52 |
| | ○ | { 9 8 23 | 9 19 50 | | MAR. . | 20 18 1 | 20 19 11 |
| | MAR. . | { 24 2 51 | 24 0 6 | | APRIL | 19 6 45 | 19 2 57 |
| | APRIL | 22 15 35 | 22 15 35 | | MAY . | 18 19 29 | 18 11 10 |
| | MAY . | 22 4 19 | 22 7 5 | | JUNE . | 17 8 13 | 16 20 52 |
| | JUNE . | 20 17 3 | 20 21 55 | | JULY . | 16 20 57 | 16 8 56 |
| | JULY . | 20 5 47 | 20 11 38 | | AUG. . | 15 9 41 | 14 23 42 |
| | AUG. . | 18 18 31 | 19 0 10 | | SEPT. . | 13 22 25 | 13 16 54 |
| | ○ | { 2 12 53 | 1 22 59 | | OCT. . | 13 11 9 | 13 11 27 |
| | SEPT. . | { 17 7 15 | 17 11 47 | | NOV. . | 11 23 53 | 12 6 2 |
| | OCT. . | 16 19 59 | 16 22 54 | | DEC. . | { 11 12 37 | 11 23 14 |
| | NOV. . | 15 8 43 | 15 9 49 | | ○ | { 26 6 59 | 25 23 33 |
| | DEC. . | 14 21 27 | 14 20 39 | | | | |
| 757. D.C. 23 18 27 | JAN. . | 18 10 11 | 13 7 23 | 754. G. 29 11 54 | JAN. . | 10 1 21 | 10 14 5 |
| | FEB. . | { 11 22 55 | 11 18 23 | | FEB. . | 8 14 5 | 9 2 15 |
| | ○ | { 26 17 17 | 27 7 17 | | MAR. . | 10 2 50 | 10 11 56 |
| | MAR. . | 12 11 40 | 12 5 50 | | APRIL | 8 15 34 | 8 19 43 |
| | APRIL | 11 0 24 | 10 18 16 | | MAY . | 8 4 18 | 8 2 45 |
| | MAY . | 10 13 8 | 10 7 57 | | JUNE . | { 6 17 2 | 6 9 50 |
| | JUNE . | 9 1 52 | 8 22 52 | | ○ | { 21 11 24 | 21 18 14 |
| | JULY . | 8 14 36 | 8 14 29 | | JULY . | 6 5 46 | 5 18 10 |
| | AUG. . | { 7 3 20 | 7 6 7 | | AUG. . | 4 13 30 | 4 4 46 |
| | ○ | { 21 21 42 | 21 10 0 | | SEPT. . | 3 7 14 | 2 18 22 |
| | SEPT. . | 5 16 4 | 5 21 12 | | OCT. . | 2 19 53 | 2 10 56 |
| | OCT. . | 5 4 48 | 5 11 19 | | NOV. . | { 1 8 42 | 1 5 43 |
| | NOV. . | 3 17 32 | 4 0 21 | | ○ | { 30 21 26 | { 1 1 15 |
| | DEC. . | 3 6 16 | 3 12 19 | | DEC. . | { 15 15 48 | { 15 12 25 |
| | | | | | | { 30 10 10 | { 30 19 53 |
| 756. B. 29 0 16 | JAN. . | { 1 19 0 | 1 23 14 | 753. F.E. 28 17 43 | JAN. . | 28 22 54 | 29 12 12 |
| | FEB. . | { 31 7 44 | 31 9 12 | | FEB. . | 27 11 33 | 28 1 29 |
| | ... | ... | ... | | MAR. . | 28 0 22 | 28 11 51 |
| | MAR. . | { 1 20 23 | 1 18 33 | | APRIL | 26 13 6 | 26 19 57 |
| | APRIL | { 31 9 12 | 31 3 50 | | MAY . | 26 1 50 | 26 2 49 |
| | MAY . | 29 21 56 | 29 13 54 | | ○ | { 9 20 12 | 9 20 26 |
| | JUNE . | 29 10 40 | 29 1 32 | | JUNE . | { 24 14 34 | 24 9 31 |
| | JULY . | 27 23 24 | 27 15 9 | | JULY . | 24 3 13 | 23 17 10 |
| | ○ | { 11 6 30 | 11 1 57 | | AUG. . | 22 16 2 | 22 2 47 |
| | AUG. . | { 26 0 52 | 25 23 36 | | SEPT. . | 21 4 46 | 20 15 8 |
| | SEPT. . | 24 13 36 | 24 16 51 | | OCT. . | 20 17 30 | 20 6 29 |
| | OCT. . | 24 2 20 | 24 9 28 | | NOV. . | 19 6 14 | 19 0 24 |
| | NOV. . | 22 15 4 | 23 0 38 | | ○ | { 4 0 36 | 4 4 7 |
| | DEC. . | 22 3 48 | 22 13 57 | | DEC. . | { 18 18 58 | 18 19 41 |

JERUSALEM CIVIL TIME.

| Mean Verinal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Verinal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 752. D. March. <i>d. h. m.</i> 28 23 32 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.O. 749. A.G. March. <i>d. h. m.</i> 28 16 58 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 7 42 | 17 14 45 | | JAN. . | 14 22 52 | 14 16 48 |
| | FEB. . | 15 20 26 | 16 8 4 | | FEB. . | 13 11 36 | 13 5 58 |
| | MAR. . | 17 9 11 | 17 22 38 | | MAR. . | 14 0 21 | 13 20 8 |
| | APRIL | 15 21 55 | 16 10 11 | | ○ | 28 18 43 | 29 4 7 |
| | MAY . | 15 10 39 | 15 18 35 | | APRIL | 12 13 5 | 12 11 9 |
| | JUNE . | 13 23 23 | 14 2 45 | | MAY . | 12 1 49 | 12 2 37 |
| | JULY . | 13 12 7 | 13 9 49 | | JUNE . | 10 14 33 | 10 17 53 |
| | AUG. . | 12 0 51 | 11 17 31 | | JULY . | 10 3 17 | 10 8 21 |
| | SEPT. . | 10 13 35 | 10 2 43 | | AUG. . | 8 16 1 | 8 21 44 |
| | OCT. . | 10 2 19 | 9 11 7 | | SEPT. . | 7 4 45 | 7 10 4 |
| | NOV. . | 8 15 8 | 8 4 2 | | ○ | 21 23 7 | 21 10 9 |
| | DEC. . | 8 3 47 | 7 20 17 | | OCT. . | 6 17 29 | 6 21 39 |
| | | | | | NOV. . | 5 6 18 | 5 8 49 |
| | | | | | DEC. . | 4 18 57 | 4 19 45 |
| 751. C. 29 5 21 | JAN. . | 6 16 31 | 6 14 9 | 748. F. 23 22 47 | JAN. . | 3 7 41 | 3 6 27 |
| | FEB. . | 5 5 15 | 5 8 31 | | FEB. . | 1 20 25 | 1 17 5 |
| | MAR. . | 6 17 59 | 7 2 1 | | MAR. . | 3 9 9 | 3 3 54 |
| | APRIL | 5 6 43 | 5 17 31 | | APRIL | 1 21 53 | 1 15 29 |
| | ○ | 20 1 5 | 19 19 18 | | MAY . | 1 10 37 | 1 4 18 |
| | MAY . | 4 19 27 | 5 6 35 | | ○ | 30 23 21 | 30 18 31 |
| | JUNE . | 8 8 11 | 8 17 13 | | JUNE . | 29 12 5 | 29 9 52 |
| | JULY . | 2 20 55 | 3 2 8 | | JULY . | 29 0 49 | 29 1 45 |
| | AUG. . | 1 9 39 | 1 10 19 | | AUG. . | 27 13 33 | 27 17 28 |
| | SEPT. . | 30 22 23 | 30 18 42 | | SEPT. . | 26 2 17 | 26 8 23 |
| | ○ | 29 11 7 | 29 4 5 | | OCT. . | 25 15 1 | 25 22 14 |
| | OCT. . | 14 5 29 | 14 8 43 | | NOV. . | 24 3 45 | 24 10 52 |
| | NOV. . | 28 23 51 | 28 14 55 | | DEC. . | 23 16 29 | 23 22 29 |
| | DEC. . | 27 12 35 | 27 3 29 | | | | |
| | | 27 1 19 | 26 17 44 | | | | |
| 750. B. 29 11 9 | JAN. . | 25 14 3 | 25 9 24 | 747. E. 29 4 36 | JAN. . | 22 5 14 | 22 8 39 |
| | FEB. . | 24 2 47 | 24 2 0 | | ○ | 5 23 36 | 6 6 9 |
| | MAR. . | 25 15 32 | 25 18 48 | | FEB. . | 20 17 58 | 20 18 2 |
| | ○ | 9 9 54 | 9 11 17 | | MAR. . | 22 6 42 | 22 3 1 |
| | APRIL | 24 4 16 | 21 10 38 | | APRIL | 20 19 26 | 20 12 21 |
| | MAY . | 23 17 0 | 24 1 2 | | MAY . | 20 8 10 | 19 22 55 |
| | JUNE . | 22 5 41 | 22 13 37 | | JUNE . | 18 20 54 | 18 11 26 |
| | JULY . | 21 18 23 | 22 0 35 | | JULY . | 18 9 38 | 18 2 5 |
| | AUG. . | 20 7 12 | 20 10 33 | | ○ | 2 4 0 | 2 1 57 |
| | SEPT. . | 18 19 56 | 18 20 16 | | AUG. . | 16 22 22 | 16 18 34 |
| | ○ | 3 14 18 | 3 8 15 | | SEPT. . | 15 11 6 | 15 12 0 |
| | OCT. . | 18 8 40 | 18 6 20 | | OCT. . | 14 23 50 | 15 5 17 |
| | NOV. . | 16 21 21 | 16 17 8 | | NOV. . | 13 12 34 | 13 21 29 |
| | DEC. . | 16 10 8 | 16 4 31 | | DEC. . | 13 1 18 | 13 11 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 746. D. March. <i>d. h. m.</i> 29 10 21 | JAN. . | <i>d. h. m.</i> { 11 14 3 | <i>d. h. m.</i> 12 0 12 | B.C. 743. G. March. <i>d. h. m.</i> 29 3 50 | JAN. . | <i>d. h. m.</i> 8 5 13 | <i>d. h. m.</i> 8 9 15 |
| | ○ | { 26 8 25 | 26 5 57 | | FEB. . | 6 17 57 | 7 3 31 |
| | FEB. . | 10 2 47 | 10 10 28 | | MAR. . | 8 6 41 | 8 19 26 |
| | MAR. . | 11 15 31 | 11 19 9 | | APRIL | 6 19 25 | 7 8 23 |
| | APRIL | 10 4 15 | 10 2 54 | | MAY . | { 6 8 9 | 6 13 36 |
| | MAY . | 9 16 59 | 9 10 36 | | ○ | { 21 2 31 | 20 18 15 |
| | JUNE . | 8 5 43 | 7 19 20 | | JUNE . | 4 20 53 | 5 2 48 |
| | JULY . | { 7 18 27 | 7 6 5 | | JULY . | 4 9 37 | 4 10 3 |
| | ○ | { 22 12 49 | 22 17 42 | | AUG. . | 2 22 21 | 2 17 27 |
| | AUG. . | 6 7 11 | 5 19 33 | | SEPT. . | { 1 11 5 | 1 1 58 |
| | SEPT. . | 4 19 55 | 4 11 42 | | ○ | { 30 23 49 | 30 12 19 |
| | OCT. . | 4 8 39 | 4 5 54 | | OCT. . | 30 12 33 | 30 1 1 |
| | NOV. . | 2 21 23 | 3 0 49 | | ○ | { 14 6 55 | 14 15 45 |
| | DEC. . | { 2 10 7 | 2 19 0 | | NOV. . | { 29 1 17 | 28 16 5 |
| | | { 31 22 51 | ... | | DEC. . | 28 14 1 | 28 9 6 |
| 745. C.B. 23 16 13 | JAN. ○ | { ... | 1 11 10 | 742. F. 29 9 39 | JAN. . | 27 2 45 | 27 3 11 |
| | | { 15 17 13 | 15 10 39 | | FEB. . | 25 15 29 | 25 21 4 |
| | FEB. . | 29 0 19 | 29 11 23 | | MAR. . | 27 4 13 | 27 13 34 |
| | MAR. . | 29 13 3 | 29 19 55 | | APRIL | 25 16 57 | 26 3 50 |
| | APRIL | 28 1 47 | 28 3 5 | | ○ | { 10 11 19 | 10 3 22 |
| | MAY . | 27 14 31 | 27 9 53 | | MAY . | { 25 5 41 | 25 15 40 |
| | JUNE . | 26 3 15 | 25 17 26 | | JUNE . | 23 18 25 | 24 1 28 |
| | JULY . | 25 15 59 | 25 2 50 | | JULY . | 23 7 9 | 23 10 4 |
| | AUG. . | 24 4 43 | 23 14 55 | | AUG. . | 21 19 53 | 21 18 27 |
| | SEPT. . | 22 17 27 | 22 6 7 | | SEPT. . | 20 8 37 | 20 3 29 |
| | OCT. . | 22 6 11 | 22 0 2 | | OCT. . | 19 21 21 | 19 13 41 |
| | NOV. . | 20 18 55 | 20 19 28 | | ○ | { 3 15 43 | 3 21 40 |
| | DEC. . | 20 7 39 | 20 14 46 | | NOV. . | { 18 10 5 | 18 1 24 |
| | | | | | DEC. . | 17 22 49 | 17 14 41 |
| 744. A. 28 22 2 | JAN. . | 18 20 24 | 19 8 22 | 741. E.D. 23 15 23 | JAN. . | 16 11 34 | 16 5 29 |
| | FEB. . | 17 9 8 | 17 23 9 | | FEB. . | 15 0 18 | 14 21 25 |
| | MAR. . | 18 21 52 | 19 10 50 | | MAR. . | 15 13 2 | 15 13 54 |
| | APRIL | 17 10 36 | 17 19 53 | | APRIL | 14 1 46 | 14 6 9 |
| | MAY . | 16 23 20 | 17 3 12 | | MAY . | 13 14 30 | 13 21 21 |
| | JUNE . | 15 12 4 | 15 9 51 | | JUNE . | 12 3 14 | 12 10 56 |
| | JULY . | 15 0 48 | 14 16 58 | | JULY . | 11 15 53 | 11 22 52 |
| | AUG. . | 13 13 32 | 13 1 34 | | AUG. . | 10 4 42 | 10 9 30 |
| | SEPT. . | 12 2 16 | 11 12 34 | | SEPT. . | 8 17 26 | 8 19 31 |
| | OCT. . | 11 15 0 | 11 2 30 | | OCT. . | 8 6 10 | 8 5 35 |
| | NOV. . | { 10 3 44 | 9 19 14 | | NOV. . | 6 18 54 | 6 16 4 |
| | ○ | { 24 22 6 | 25 3 2 | | DEC. . | 6 7 38 | 6 3 9 |
| | DEC. . | 9 16 28 | 9 13 53 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 740. C. March. d. h. m. 28 21 17 | JAN. . | d. h. m. 4 20 23 | d. h. m. 4 14 52 | B.C. 737. G.F. March. d. h. m. 28 14 44 | JAN. . | d. h. m. 2 11 32 | d. h. m. 2 22 36 |
| | FEB. . | 3 9 7 | 3 3 19 | | FEB. . | 1 0 16 | 1 9 47 |
| | MAR. . | { 4 21 51 | 4 16 40 | | MAR. . | { 1 13 0 | 1 19 3 |
| | ○ | { 19 16 13 | 20 3 39 | | | { 31 1 44 | 31 2 58 |
| | APRIL | 3 10 35 | 3 7 0 | | APRIL | 29 14 28 | 29 10 25 |
| | MAY . | 2 23 19 | 2 22 7 | | MAY . | 29 3 12 | 28 18 21 |
| | JUNE . | 1 12 3 | 1 13 31 | | JUNE . | 27 15 56 | 27 3 56 |
| | JULY . | { 1 0 47 | 1 4 35 | | JULY . | 27 4 40 | 26 16 0 |
| | | { 30 13 31 | 30 18 46 | | AUG. . | 25 17 24 | 25 6 55 |
| | AUG. . | 29 2 15 | 29 7 53 | | SEPT. . | 24 6 8 | 24 0 22 |
| | ○ | { 12 20 37 | 12 6 49 | | OCT. . | 23 18 52 | 23 19 16 |
| | SEPT. . | { 27 14 59 | 27 20 6 | | NOV. . | 22 7 36 | 22 14 8 |
| | OCT. . | 27 3 43 | 27 7 39 | | DEC. . | 21 20 20 | 22 7 31 |
| | NOV. . | 25 16 27 | 25 18 48 | | ○ | { 5 14 42 | 5 8 0 |
| | DEC. . | 25 5 11 | 25 5 34 | 736. E. | JAN. . | { 20 9 5 | 20 22 23 |
| 739. B. | JAN. . | 23 17 55 | 23 16 2 | | FEB. . | 13 21 49 | 19 10 21 |
| | FEB. . | 22 6 39 | 22 2 26 | 28 20 32 | MAR. . | 20 10 33 | 20 19 48 |
| | ○ | { 9 1 1 | 9 14 8 | | APRIL | 18 23 17 | 19 3 25 |
| 29 3 6 | MAR. . | { 23 19 23 | 23 13 17 | | MAY . | 18 12 1 | 18 10 11 |
| | APRIL | 22 8 7 | 22 1 11 | | JUNE . | 17 0 45 | 16 17 12 |
| | MAY . | 21 20 51 | 21 14 32 | | ○ | { 1 19 7 | 2 1 1 |
| | JUNE . | 20 9 35 | 20 5 20 | | JULY . | { 16 13 29 | 16 1 32 |
| | JULY . | 19 22 19 | 19 21 10 | | AUG. . | 15 2 13 | 14 12 16 |
| | AUG. . | 18 11 3 | 18 13 16 | | SEPT. . | 13 14 57 | 13 1 59 |
| | ○ | { 2 5 25 | 1 18 2 | | OCT. . | 13 3 41 | 12 18 43 |
| | SEPT. . | { 16 23 47 | 17 4 56 | | NOV. . | 11 16 25 | 11 13 37 |
| | OCT. . | 16 12 31 | 16 19 33 | | DEC. . | { 11 5 9 | 11 9 14 |
| | NOV. . | 15 1 15 | 15 9 5 | | ○ | { 25 23 31 | 25 21 16 |
| | DEC. . | 14 13 59 | 14 21 12 | 735. D. | JAN. . | 9 17 54 | 10 3 51 |
| 738. A. | JAN. . | 13 2 44 | 13 7 59 | | FEB. . | 8 6 38 | 8 20 3 |
| | FEB. . | { 11 15 28 | 11 17 37 | 29 2 21 | MAR. . | 9 19 22 | 10 9 11 |
| | ○ | { 26 9 50 | 26 13 32 | | APRIL | 8 8 6 | 8 19 24 |
| 29 8 55 | MAR. . | 13 4 12 | 13 2 29 | | MAY . | 7 20 50 | 8 3 24 |
| | APRIL | 11 16 56 | 11 11 18 | | JUNE . | { 6 9 34 | 6 10 16 |
| | MAY . | 11 5 40 | 10 20 58 | | ○ | { 21 3 56 | 21 2 55 |
| | JUNE . | 9 18 24 | 9 8 18 | | JULY . | 5 22 18 | 5 17 4 |
| | JULY . | 9 7 8 | 8 21 52 | | AUG. . | 4 11 2 | 4 0 54 |
| | AUG. . | { 7 19 52 | 7 13 36 | | SEPT. . | 2 23 46 | 2 10 44 |
| | ○ | { 22 14 14 | 22 10 0 | | OCT. . | 2 12 30 | { 1 23 14 |
| | SEPT. . | 6 8 36 | 6 6 52 | | | { 30 13 58 | { 31 14 39 |
| | OCT. . | 5 21 20 | 6 0 37 | | NOV. . | { 1 1 14 | 30 8 29 |
| | NOV. . | 4 10 4 | 4 17 43 | | ○ | { 15 8 20 | 15 13 3 |
| | DEC. . | 3 22 48 | 4 9 12 | | DEC. . | { 30 2 42 | 30 3 34 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 734. C. March. d. h. m. 29 8 10 | | d. h. m. | d. h. m. | B.C. 731. F. March. d. h. m. 29 1 36 | | d. h. m. | d. h. m. |
| | JAN. . | 28 15 26 | 28 22 23 | | JAN. . | 25 6 36 | 25 1 8 |
| | FEB. . | 27 4 10 | 27 15 28 | | FEB. . | 23 19 20 | 23 13 43 |
| | MAR. . | 28 16 54 | 29 5 52 | | MAR. . | 25 8 4 | 25 3 15 |
| | APRIL | 27 5 38 | 27 17 23 | | ○ | { 9 2 26 | 9 11 45 |
| | MAY . | 26 18 22 | 27 2 30 | | APRIL | { 23 20 48 | 23 17 47 |
| | JUNE . | 25 7 6 | 25 10 12 | | MAY . | 23 9 32 | 23 9 2 |
| | JULY . | 24 19 50 | 24 17 32 | | JUNE . | 21 22 16 | 22 0 23 |
| | AUG. . | 23 8 34 | 23 1 33 | | JULY . | 21 11 0 | 21 15 15 |
| | SEPT. . | 21 21 18 | 21 11 3 | | AUG. . | 19 23 44 | 20 5 11 |
| | OCT. . | 21 10 2 | 20 22 37 | | SEPT. . | 18 12 23 | 18 18 8 |
| | NOV. . | 19 22 46 | 19 12 29 | | ○ | { 3 6 50 | 2 18 5 |
| | DEC. . | 19 11 30 | 19 4 29 | | OCT. . | { 18 1 12 | 18 6 15 |
| | | | | | NOV. . | 16 13 56 | 16 17 44 |
| | | | | | DEC. . | 16 2 40 | 16 4 40 |
| 733. B.A. 28 13 59 | JAN. . | 18 0 15 | 17 21 59 | 730. E. 29 7 25 | JAN. . | 14 15 25 | 14 15 10 |
| | FEB. . | 16 12 59 | 16 15 53 | | FEB. . | 13 4 9 | 13 1 20 |
| | MAR. . | 17 1 43 | 17 9 2 | | MAR. . | 14 16 53 | 14 11 37 |
| | APRIL | { 15 14 27 | 16 0 24 | | APRIL | 13 5 37 | 12 22 39 |
| | ○ | { 30 8 49 | 30 2 40 | | MAY . | 12 18 21 | 12 11 1 |
| | MAY . | 15 3 11 | 15 13 28 | | JUNE . | 11 7 5 | 11 1 2 |
| | JUNE . | 13 15 55 | 14 0 19 | | JULY . | 10 19 49 | 10 16 23 |
| | JULY . | 13 4 39 | 13 9 35 | | AUG. . | 9 8 33 | 9 8 43 |
| | AUG. . | 11 17 23 | 11 18 11 | | SEPT. . | 7 21 17 | 8 0 56 |
| | SEPT. . | 10 6 7 | 10 3 2 | | OCT. . | 7 10 1 | 7 16 29 |
| | OCT. . | { 9 18 51 | 9 12 45 | | NOV. . | 5 22 45 | 6 6 50 |
| | ○ | { 21 13 13 | 24 16 36 | | DEC. . | 5 11 29 | 5 19 44 |
| | NOV. . | 8 7 35 | 7 23 46 | | | | |
| | DEC. . | 7 20 19 | 7 12 12 | | | | |
| 732. G. 23 19 48 | JAN. . | 6 9 4 | 6 2 5 | 729. D.C. 23 13 14 | JAN. . | 4 0 14 | 4 7 9 |
| | FEB. . | 4 21 48 | 4 17 12 | | FEB. . | { 2 12 58 | 2 17 11 |
| | MAR. . | 6 10 32 | 6 9 13 | | ○ | { 17 7 20 | 17 13 31 |
| | APRIL | { 4 23 16 | 5 1 28 | | MAR. . | 3 1 42 | 3 2 9 |
| | ○ | { 19 17 33 | 19 18 55 | | APRIL | 1 14 26 | { 1 10 41 |
| | MAY . | 4 12 0 | 4 17 11 | | ○ | { 1 3 10 | { 30 19 35 |
| | JUNE . | 3 0 44 | 3 7 40 | | MAY . | { 30 15 54 | 30 5 50 |
| | JULY . | 2 13 28 | 2 20 36 | | JUNE . | 29 4 33 | 28 18 12 |
| | AUG. . | { 1 2 12 | 1 8 2 | | JULY . | 28 17 22 | 28 8 55 |
| | ○ | { 30 14 56 | 30 13 33 | | ○ | { 12 11 44 | 12 9 53 |
| | SEPT. . | 29 3 40 | 29 4 48 | | AUG. . | { 27 6 6 | 27 1 41 |
| | ○ | { 13 22 2 | 13 15 59 | | SEPT. . | 25 18 50 | 25 19 33 |
| | OCT. . | { 28 16 21 | 28 15 11 | | OCT. . | 25 7 31 | 25 13 20 |
| | NOV. . | 27 5 8 | 27 2 1 | | NOV. . | 23 20 18 | 24 5 56 |
| | DEC. . | 26 17 52 | 26 13 16 | | DEC. . | 23 9 2 | 23 20 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 728. B. March. <i>d. h. m.</i> 28 19 3 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 725. F.E. March. <i>d. h. m.</i> 28 12 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 21 46 | 22 8 42 | | JAN. . | 19 12 56 | 19 16 56 |
| | ○ | { 5 16 8 | 5 13 31 | | FEB. . | 18 1 40 | 18 10 55 |
| | FEB. . | 20 10 30 | 20 18 45 | | MAR. . | 18 14 21 | 19 2 37 |
| | MAR. . | 21 23 14 | 22 3 5 | | APRIL | 17 3 8 | 17 13 31 |
| | APRIL | 20 11 58 | 20 10 28 | | MAY . | { 16 15 52 | 17 1 47 |
| | MAY . | 20 0 42 | 19 17 54 | | ○ | { 31 10 14 | 31 0 59 |
| | JUNE . | 18 13 26 | 18 2 28 | | JUNE . | 15 4 36 | 15 10 7 |
| | JULY . | 18 2 10 | 17 13 12 | | JULY . | 14 17 20 | 14 17 30 |
| | ○ | { 1 20 32 | 2 1 17 | | AUG. . | 13 6 4 | 13 1 23 |
| | AUG. . | { 16 14 54 | 16 2 43 | | SEPT. . | 11 18 48 | 11 10 14 |
| | SEPT. . | 15 3 38 | 14 19 7 | | OCT. . | 11 7 32 | 10 20 50 |
| | OCT. . | 14 16 22 | 14 13 35 | | NOV. . | { 9 20 16 | 9 9 31 |
| | NOV. . | 13 5 6 | 13 8 48 | | ○ | { 24 14 34 | 25 0 20 |
| | DEC. . | 12 17 50 | 13 3 12 | | DEC. . | 9 9 0 | 9 0 26 |
| 727. A. 20 0 52 | JAN. . | { 11 6 35 | 11 19 25 | 724. D. 28 18 18 | JAN. . | 7 21 44 | 7 17 5 |
| | ○ | { 26 0 57 | 25 18 49 | | FEB. . | 6 10 29 | 6 10 42 |
| | FEB. . | 9 19 19 | 10 8 46 | | MAR. . | 7 23 13 | 8 4 9 |
| | MAR. . | 11 8 3 | 11 19 18 | | APRIL | 6 11 57 | 6 20 23 |
| | APRIL | 9 20 47 | 10 3 36 | | MAY . | { 6 0 41 | 6 10 37 |
| | MAY . | 9 9 31 | 9 10 35 | | ○ | { 20 19 3 | 20 10 33 |
| | JUNE . | 7 22 15 | 7 17 18 | | JUNE . | 4 13 25 | 4 22 38 |
| | JULY . | { 7 10 59 | 7 0 51 | | JULY . | 4 2 9 | 4 8 44 |
| | ○ | { 22 5 21 | 22 11 9 | | AUG. . | 2 14 53 | 2 17 48 |
| | AUG. . | 5 23 43 | 5 10 20 | | SEPT. . | { 1 3 37 | 1 2 38 |
| | SEPT. . | 4 12 27 | 3 22 35 | | ○ | { 30 16 21 | 30 12 3 |
| | OCT. . | 4 1 11 | 3 13 56 | | OCT. . | 30 5 5 | 29 22 30 |
| | NOV. . | 2 13 55 | 2 7 57 | | ○ | { 13 23 27 | 14 5 48 |
| | DEC. . | { 2 2 30 | 2 3 27 | | NOV. . | { 28 17 49 | 28 10 12 |
| | | { 31 15 23 | 31 22 43 | | DEC. . | 28 6 33 | 27 23 13 |
| 726. G. 20 6 41 | JAN. . | 30 4 7 | 30 16 11 | 723. C. 20 0 7 | JAN. . | 26 19 17 | 26 13 29 |
| | FEB. . | 28 16 52 | { 1 6 50 | | FEB. . | 25 8 1 | 25 4 48 |
| | MAR. . | 30 5 36 | { 30 18 23 | | MAR. . | 26 20 45 | 26 20 46 |
| | APRIL | 28 18 20 | 29 3 21 | | APRIL | 25 9 29 | 25 12 42 |
| | MAY . | 28 7 4 | 28 10 38 | | MAY . | 24 22 13 | 25 3 52 |
| | JUNE . | 26 19 43 | 26 17 21 | | JUNE . | 23 10 57 | 23 17 48 |
| | JULY . | 26 8 32 | 26 0 39 | | JULY . | 22 23 41 | 23 6 5 |
| | AUG. . | 24 21 16 | 24 9 23 | | AUG. . | 21 12 25 | 21 17 17 |
| | SEPT. . | 23 10 0 | 22 20 42 | | SEPT. . | 20 1 9 | 20 3 50 |
| | OCT. . | 22 22 44 | 22 10 43 | | OCT. . | 19 13 53 | 19 14 19 |
| | NOV. . | 21 11 28 | 21 3 24 | | NOV. . | 18 2 37 | 18 1 2 |
| | ○ | { 6 5 50 | 6 11 58 | | DEC. . | 17 15 21 | 17 12 0 |
| | DEC. . | { 21 0 12 | 20 21 56 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------------|---------|------------------------------------|------------------------------------|-----------------------------------|---------|------------------------------------|------------------------------------|
| B.C. 722. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 719. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. d. h. m. | JAN. . | 16 4 6 | 15 23 24 | E. March. d. h. m. | JAN. . | 12 19 16 | 13 7 8 |
| 29 5 56 | FEB. . | 14 16 50 | 14 11 18 | 28 23 22 | FEB. . | 11 8 0 | 11 18 8 |
| | MAR. . | { 16 5 34 | 16 0 1 | | MAR. . | 12 20 44 | 13 3 5 |
| | ○ | { 30 23 56 | 31 11 17 | | APRIL | 11 9 23 | 11 10 40 |
| | APRIL | 14 18 18 | 14 13 49 | | MAY . | 10 22 12 | 10 17 49 |
| | MAY . | 14 7 2 | 14 4 36 | | JUNE . | 9 10 56 | 9 1 36 |
| | JUNE . | 12 19 46 | 12 19 58 | | JULY . | 8 23 40 | 8 11 6 |
| | JULY . | 12 8 30 | 12 11 18 | | AUG. . | 7 12 24 | 6 23 13 |
| | AUG. . | 10 21 14 | 11 1 58 | | SEPT. . | 6 1 8 | 5 14 18 |
| | SEPT. . | { 9 9 58 | 9 15 43 | | OCT. . | 5 13 52 | 5 8 0 |
| | ○ | { 21 4 20 | 23 14 45 | | NOV. . | 4 2 36 | 4 3 10 |
| | OCT. . | 8 22 42 | 9 4 30 | | DEC. . | 3 15 20 | 3 22 16 |
| | NOV. . | 7 11 26 | 7 16 28 | | | | |
| | DEC. . | 7 0 10 | 7 3 45 | | | | |
| 721. A.G. | JAN. . | 5 12 55 | 5 14 23 | 718. D. | JAN. ○ | { 2 4 5 | 2 15 43 |
| 28 11 45 | FEB. . | 4 1 39 | 4 0 29 | | | { 16 22 27 | 16 16 27 |
| | MAR. . | { 4 14 23 | 4 10 23 | | | { 31 16 49 | ... |
| | ○ | { 19 8 45 | 19 22 10 | 29 5 11 | FEB. . | ... | 1 6 31 |
| | APRIL | 3 3 7 | 2 20 40 | | MAR. . | { 2 5 33 | 2 18 20 |
| | MAY . | 2 15 51 | { 2 8 5 | | | { 31 18 17 | { 1 3 32 |
| | JUNE . | { 1 4 35 | { 31 21 8 | | APRIL | 30 7 1 | { 30 10 58 |
| | JULY . | { 30 17 19 | 30 11 53 | | MAY . | 29 19 45 | 29 17 37 |
| | AUG. . | 30 6 3 | 30 3 56 | | JUNE . | 28 8 29 | 28 0 38 |
| | ○ | { 12 13 9 | 12 2 17 | | ○ | { 13 2 51 | 13 7 22 |
| | SEPT. . | { 27 7 31 | 27 12 47 | | JULY . | { 27 21 13 | 27 9 5 |
| | OCT. . | 26 20 15 | 27 4 2 | | AUG. . | 26 9 57 | 25 19 56 |
| | NOV. . | 25 8 59 | 25 17 49 | | SEPT. . | 24 22 41 | 24 9 49 |
| | DEC. . | 24 21 43 | 25 6 1 | | OCT. . | 24 11 25 | 24 2 39 |
| 720. F. | JAN. . | 23 10 27 | 23 16 37 | 717. O.B. | ○ | { 6 7 15 | 6 6 3 |
| 28 17 34 | FEB. . | 21 23 11 | 22 1 43 | 28 11 0 | JAN. . | { 21 1 37 | 21 11 39 |
| | ○ | { 8 17 33 | 9 1 14 | | FEB. . | 19 14 21 | 20 3 42 |
| | MAR. . | { 23 11 55 | 23 10 19 | | MAR. . | 20 3 5 | 20 16 43 |
| | APRIL | 22 0 39 | 21 18 42 | | APRIL | 18 15 49 | 19 2 49 |
| | MAY . | 21 13 23 | 21 3 59 | | MAY . | 18 4 33 | 18 10 47 |
| | JUNE . | 20 2 7 | 19 15 8 | | JUNE . | 16 17 17 | 16 17 43 |
| | JULY . | 19 14 51 | 19 4 41 | | ○ | { 1 11 39 | 1 9 25 |
| | AUG. . | 18 3 35 | 17 20 36 | | JULY . | { 16 6 1 | 16 0 41 |
| | ○ | { 1 21 57 | 1 18 12 | | AUG. . | 14 13 45 | 14 8 46 |
| | SEPT. . | { 16 16 19 | 16 14 14 | | SEPT. . | 13 7 29 | 12 18 50 |
| | OCT. . | 16 5 3 | 16 8 27 | | OCT. . | 12 20 13 | 12 7 29 |
| | NOV. . | 14 17 47 | 15 1 59 | | NOV. . | 11 8 57 | 10 22 53 |
| | DEC. . | 14 6 31 | 14 17 43 | | DEC. . | { 10 21 41 | 10 16 33 |
| | | | | | ○ | { 25 16 3 | 25 21 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 716. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 713. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 28 16 40 | JAN. . | 9 10 26 | 9 11 22 | E.D. March. <i>d. h. m.</i> 28 10 15 | JAN. . | 7 1 36 | 6 22 1 |
| | FEB. . | 7 23 10 | 8 5 52 | | FEB. . | 5 14 20 | 5 9 22 |
| | MAR. . | 9 11 54 | 9 22 41 | | MAR. . | 6 3 4 | 5 21 20 |
| | APRIL . | 8 0 88 | 8 12 58 | | APRIL . | 4 15 48 | 4 10 17 |
| | MAY . | 7 13 22 | 8 0 29 | | ○ | 19 10 10 | 19 19 17 |
| | JUNE . | 6 2 6 | 6 9 45 | | MAY . | 4 4 32 | 4 0 25 |
| | JULY . | 5 14 50 | 5 17 41 | | JUNE . | 2 17 16 | 2 15 29 |
| | AUG. . | 4 8 34 | 4 1 22 | | | 2 6 0 | 2 6 58 |
| | SEPT. . | 2 16 18 | 2 9 44 | | JULY . | 31 18 41 | 31 22 15 |
| | OCT. . | 2 5 2 | 1 19 33 | | AUG. . | 30 7 28 | 30 12 45 |
| | | 31 17 46 | 31 7 15 | | SEPT. . | 28 20 12 | 29 2 20 |
| | NOV. . | 30 6 30 | 29 21 1 | | ○ | 13 14 34 | 13 2 12 |
| | DEC. . | 29 19 14 | 29 12 40 | | OCT. . | 28 8 56 | 28 14 55 |
| | | | | | NOV. . | 26 21 40 | 27 2 39 |
| | | | | | DEC. . | 26 10 24 | 26 13 35 |
| 715. G. 28 22 38 | JAN. . | 23 7 59 | 23 5 40 | 712. C. 28 16 4 | JAN. . | 24 23 8 | 24 23 46 |
| | FEB. . | 26 20 43 | 26 23 5 | | FEB. . | 23 11 53 | 23 9 30 |
| | MAR. . | 28 9 27 | 28 15 53 | | MAR. . | 25 0 37 | 24 19 14 |
| | APRIL . | 26 22 11 | 27 7 8 | | APRIL . | 23 13 21 | 23 5 45 |
| | ○ | 11 16 33 | 11 10 0 | | MAY . | 23 2 5 | 22 17 45 |
| | MAY . | 26 10 55 | 26 20 19 | | JUNE . | 21 14 49 | 21 7 36 |
| | JUNE . | 24 23 39 | 25 7 23 | | JULY . | 21 3 33 | 20 23 9 |
| | JULY . | 24 12 23 | 24 17 7 | | AUG. . | 19 16 17 | 19 15 45 |
| | AUG. . | 23 1 7 | 23 2 12 | | SEPT. . | 18 5 1 | 18 8 33 |
| | SEPT. . | 21 13 51 | 21 11 29 | | OCT. . | 17 17 45 | 18 0 30 |
| | OCT. . | 21 2 35 | 20 21 31 | | NOV. . | 16 6 29 | 16 15 26 |
| | ○ | 4 20 57 | 5 0 33 | | DEC. . | 15 19 13 | 16 4 31 |
| | NOV. . | 19 15 19 | 19 8 37 | | | | |
| | DEC. . | 19 4 3 | 18 20 53 | | | | |
| 714. F. 20 4 27 | JAN. . | 17 16 47 | 17 10 13 | 711. D. 23 21 53 | JAN. . | 14 7 57 | 14 15 51 |
| | FEB. . | 16 5 31 | 16 0 51 | | FEB. . | 12 20 41 | 13 1 35 |
| | MAR. . | 17 18 15 | 17 16 15 | | ○ | 27 15 3 | 27 20 42 |
| | APRIL . | 16 6 59 | 16 8 6 | | MAR. . | 14 9 25 | 14 10 9 |
| | ○ | 1 1 21 | 1 2 27 | | APRIL . | 12 22 9 | 12 18 14 |
| | MAY . | 15 19 43 | 15 23 41 | | MAY . | 12 10 53 | 12 2 46 |
| | JUNE . | 14 8 27 | 14 14 13 | | JUNE . | 10 23 37 | 10 12 46 |
| | JULY . | 13 21 11 | 14 3 35 | | JULY . | 10 12 21 | 10 1 1 |
| | AUG. . | 12 9 55 | 12 15 35 | | AUG. . | 9 1 5 | 8 15 52 |
| | SEPT. . | 10 22 39 | 11 2 41 | | ○ | 23 19 27 | 23 17 56 |
| | OCT. . | 10 11 23 | 10 13 24 | | SEPT. . | 7 13 49 | 7 8 54 |
| | ○ | 25 5 45 | 24 23 48 | | OCT. . | 7 2 33 | 7 3 12 |
| | NOV. . | 9 0 7 | 9 0 6 | | NOV. . | 5 15 17 | 5 21 27 |
| | DEC. . | 8 12 51 | 8 10 53 | | DEC. . | 5 4 1 | 5 14 20 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 710. A. March. d. h. m. 29 8 42 | JAN. . | d. h. m. 3 16 46 | d. h. m. 4 5 0 | B.C. 707. D. March. d. h. m. 28 21 8 | JAN. . | d. h. m. 29 20 40 | d. h. m. 30 0 31 |
| | FEB. . | { 2 5 30 | 2 17 6 | | FEB. . | 23 9 24 | 23 18 11 |
| | ○ | { 16 23 52 | 16 21 3 | | MAR. . | 29 22 8 | 30 9 42 |
| | MAR. . | 3 18 14 | 4 2 52 | | APRIL | 28 10 52 | 28 22 34 |
| | APRIL | 2 6 58 | 2 10 53 | | MAY . | 27 23 36 | 28 8 56 |
| | MAY . | { 1 19 42 | 1 17 59 | | ○ | { 11 17 58 | 11 7 47 |
| | | { 31 8 26 | 31 1 13 | | JUNE . | { 26 12 20 | 26 17 31 |
| | JUNE . | 29 21 10 | 29 9 41 | | JULY . | 26 1 4 | 26 1 22 |
| | JULY . | 29 9 54 | 28 20 26 | | AUG. . | 24 13 48 | 24 9 28 |
| | ○ | { 13 4 16 | 13 8 59 | | SEPT. . | 23 2 32 | 22 18 40 |
| | AUG. . | { 27 22 33 | 27 10 5 | | OCT. . | 22 15 16 | 22 5 28 |
| | SEPT. . | 26 11 22 | 26 2 41 | | NOV. . | 21 4 0 | 20 18 11 |
| | OCT. . | 26 0 6 | 25 21 25 | | ○ | { 5 22 22 | 6 8 55 |
| | NOV. . | 24 12 50 | 24 16 51 | | DEC. . | { 20 16 44 | 20 8 49 |
| | DEC. . | 24 1 34 | 24 11 20 | | | | |
| 709. G.F. | JAN. . | 22 14 18 | 23 3 32 | 706. C. | JAN. . | 19 5 23 | 19 1 0 |
| | ○ | { 6 8 40 | 6 2 53 | | FEB. . | 17 18 12 | 17 18 3 |
| | FEB. . | { 21 3 2 | 21 16 45 | 29 2 57 | MAR. . | 19 6 56 | 19 11 5 |
| | MAR. . | 21 15 46 | 22 3 5 | | APRIL | 17 19 40 | 18 3 6 |
| | APRIL | 20 4 30 | 20 11 11 | | MAY . | 17 8 24 | { 17 17 20 |
| | MAY . | 19 17 14 | 19 18 2 | | ○ | { 1 2 46 | { 31 17 46 |
| | JUNE . | 18 5 58 | 18 0 43 | | JUNE . | { 15 21 8 | 16 5 34 |
| | JULY . | 17 18 42 | 17 8 22 | | JULY . | 15 9 52 | 15 16 5 |
| | ○ | { 1 13 4 | 1 18 17 | | AUG. . | 13 22 36 | 14 1 35 |
| | AUG. . | { 16 7 26 | 15 18 0 | | SEPT. . | 12 11 20 | 12 10 56 |
| | SEPT. . | 14 20 10 | 14 6 21 | | OCT. . | 12 0 4 | 11 20 43 |
| | OCT. . | 14 8 54 | 13 21 53 | | NOV. . | { 10 12 48 | 10 7 22 |
| | NOV. . | 12 21 33 | 12 15 56 | | ○ | { 25 7 10 | 25 13 55 |
| | DEC. . | 12 10 22 | 12 11 23 | | DEC. . | 10 1 32 | 9 19 0 |
| 708. M. | JAN. . | 10 23 7 | 11 6 33 | 705. B.A. | JAN. . | 8 14 17 | 8 7 41 |
| | FEB. . | 9 11 51 | 9 23 52 | | FEB. . | 7 3 1 | 6 21 23 |
| | MAR. . | 11 0 35 | 11 14 21 | 28 8 46 | MAR. . | 7 15 45 | 7 12 6 |
| | APRIL | 9 13 19 | 10 1 47 | | APRIL | 6 4 29 | 6 3 33 |
| | MAY . | 9 2 3 | 9 10 40 | | MAY . | 5 17 13 | 5 19 13 |
| | JUNE . | 7 14 47 | 7 18 1 | | JUNE . | 4 5 57 | 4 10 24 |
| | JULY . | 7 3 31 | 7 0 56 | | JULY . | 3 18 41 | 4 0 33 |
| | AUG. . | 5 16 15 | 5 8 28 | | AUG. . | { 2 7 25 | 2 13 24 |
| | SEPT. . | 4 4 59 | 3 17 34 | | | { 31 20 9 | { 1 1 11 |
| | OCT. . | 3 17 43 | 3 4 53 | | SEPT. . | 30 8 53 | { 30 12 17 |
| | NOV. . | 2 6 27 | 1 19 2 | | OCT. . | 29 21 37 | 29 23 9 |
| | DEC. . | { 1 19 11 | 1 11 36 | | NOV. . | 28 10 21 | 28 10 0 |
| | ○ | { 16 13 33 | 16 20 49 | | DEC. . | 27 23 5 | 27 20 52 |
| | | { 31 7 55 | 31 5 50 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 704. G. March. <i>d. h. m.</i> 28 14 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 701. D.C. March. <i>d. h. m.</i> 28 8 1 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26 11 50 | 26 7 51 | | JAN. . | 24 3 0 | 24 15 34 |
| | FEB. . | 25 0 34 | 24 19 11 | | FEB. . | 22 15 44 | 23 2 20 |
| | MAR. . | 26 13 18 | 26 7 19 | | MAR. . | 23 4 28 | 23 10 58 |
| | ○ | { 10 7 40 | 10 18 49 | | APRIL | 21 17 12 | 21 18 16 |
| | APRIL | { 25 2 2 | 24 20 36 | | MAY . | 21 5 56 | 21 1 13 |
| | MAY . | 24 14 46 | 24 11 6 | | JUNE . | 19 18 40 | 19 8 53 |
| | JUNE . | 23 3 30 | 23 2 28 | | JULY . | 19 7 24 | 18 18 23 |
| | JULY . | 22 16 14 | 22 18 4 | | AUG. . | 17 20 8 | 17 6 33 |
| | AUG. . | 21 4 58 | 21 9 18 | | SEPT. . | 16 8 52 | 15 21 51 |
| | SEPT. . | 19 17 42 | 19 23 39 | | OCT. . | 15 21 36 | 15 15 45 |
| | ○ | { 4 12 4 | 3 22 53 | | NOV. . | 14 10 20 | 14 11 8 |
| | OCT. . | { 19 6 26 | 19 13 0 | | DEC. . | 13 23 4 | 14 6 20 |
| | NOV. . | 17 19 10 | 18 1 19 | | | | |
| | DEC. . | 17 7 54 | 17 12 41 | 700. B. | JAN. . | { 12 11 48 | 12 23 49 |
| | | | | | ○ | { 27 6 10 | 27 0 44 |
| 703. F. 28 20 24 | JAN. . | 15 20 38 | 15 23 7 | 28 13 50 | FEB. . | 11 0 32 | 11 14 29 |
| | FEB. . | 14 9 22 | 14 8 49 | | MAR. . | 12 13 16 | 13 2 7 |
| | MAR. . | { 15 22 6 | 15 18 12 | | APRIL | 11 2 0 | 11 11 9 |
| | ○ | { 30 16 28 | 31 5 23 | | MAY . | 10 14 44 | 10 18 20 |
| | APRIL | 14 10 50 | 14 3 58 | | JUNE . | 9 3 28 | 9 1 4 |
| | MAY . | 13 23 34 | 13 14 56 | | JULY . | { 8 16 12 | 8 8 8 |
| | JUNE . | 12 12 18 | 12 3 45 | | ○ | { 23 10 34 | 23 14 48 |
| | JULY . | 12 1 2 | 11 18 30 | | AUG. . | 7 4 56 | 6 16 48 |
| | AUG. . | 10 13 46 | 10 10 49 | | SEPT. . | 5 17 40 | 5 3 43 |
| | SEPT. . | { 9 2 30 | 9 3 53 | | OCT. . | 5 6 24 | 4 17 40 |
| | ○ | { 23 20 52 | 23 10 37 | | NOV. . | 3 19 8 | 3 10 41 |
| | OCT. . | 8 15 14 | 8 20 43 | | DEC. . | 3 7 52 | 3 5 3 |
| | NOV. . | 7 3 58 | 7 12 27 | | | | |
| | DEC. . | 6 16 42 | 7 2 32 | | | | |
| 702. E. 20 2 13 | JAN. . | 5 5 27 | 5 14 45 | 699. A. | JAN. ○ | { 1 20 37 | 2 1 |
| | FEB. . | 3 18 11 | 4 1 8 | | | { 16 14 59 | 16 14 4 |
| | MAR. . | { 5 6 55 | 5 10 2 | | | { 31 9 21 | 31 19 2 |
| | ○ | { 20 1 17 | 20 8 38 | | FEB. . | ... | ... |
| | APRIL | 3 19 39 | 3 18 2 | 23 19 39 | MAR. . | { 1 22 5 | 2 11 1 |
| | MAY . | 3 8 23 | 3 2 2 | | | { 31 10 49 | { 1 0 |
| | JUNE . | 1 21 7 | { 1 11 3 | | APRIL | 29 23 33 | { 30 10 |
| | JULY . | { 1 9 51 | { 30 22 2 | | MAY . | 29 12 17 | 29 18 |
| | | { 30 22 35 | 30 11 37 | | JUNE . | 28 1 1 | 28 1 1 |
| | AUG. . | 29 11 19 | 29 3 45 | | ○ | { 12 19 23 | 12 16 |
| | ○ | { 13 5 41 | 13 2 32 | | JULY . | { 27 13 45 | 27 8 2 |
| | SEPT. . | { 23 0 3 | 27 21 46 | | AUG. . | 26 2 29 | 25 16 4 |
| | OCT. . | 27 12 47 | 27 16 25 | | SEPT. . | 24 15 13 | 24 3 |
| | NOV. . | 26 1 31 | 26 10 16 | | OCT. . | 24 3 57 | 23 15 3 |
| | DEC. . | 25 14 15 | 26 2 11 | | NOV. . | 22 16 41 | 22 7 1 |
| | | | | | DEC. . | 22 5 25 | 22 0 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---|--|--|---|---|---|---|
| B.C. 698. G. March. <i>d. h. m.</i> 29 1 28 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> { 5 23 48 { 20 18 10 19 6 54 20 19 38 19 8 22 18 21 6 { 2 4 12 { 16 22 34 15 11 18 14 0 2 13 12 46 12 1 30 11 14 14 | <i>d. h. m.</i> 6 6 45 20 19 2 19 13 13 21 5 47 19 19 57 19 7 32 1 17 41 17 1 16 15 9 20 13 18 5 13 4 10 11 15 57 11 5 33 | B.C. 695. C. March. <i>d. h. m.</i> 28 18 54 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | <i>d. h. m.</i> 17 9 19 15 22 3 17 10 47 { 15 23 31 { 30 17 53 15 12 15 14 0 59 13 13 43 12 2 27 10 15 11 { 10 3 55 { 24 22 17 8 16 39 8 5 23 | <i>d. h. m.</i> 17 6 38 15 17 28 17 4 51 15 17 14 1 2 42 15 6 59 13 21 55 13 13 33 12 5 19 10 20 26 10 10 35 24 10 25 8 23 39 8 11 34 |
| 697. F.E. 23 7 17 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 10 2 58 8 15 42 9 4 26 7 17 10 { 7 5 54 { 22 0 16 5 13 38 5 7 22 3 20 6 2 8 50 { 1 21 34 { 31 10 18 { 15 4 40 { 20 23 2 29 11 46 | 9 20 48 8 13 14 9 6 10 7 22 33 7 13 47 21 17 16 6 3 6 5 14 35 4 0 44 2 10 18 1 20 2 31 6 22 15 8 37 29 17 30 29 5 30 | 694. B. 29 0 43 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 6 18 8 5 6 52 6 19 36 5 8 20 4 21 4 3 9 48 2 22 32 1 11 16 { 31 0 0 29 12 44 29 1 28 27 14 12 27 2 56 | 6 22 25 5 8 15 6 17 29 5 2 43 4 12 47 3 0 28 2 14 13 1 5 55 30 22 56 29 16 15 29 8 53 28 0 1 27 13 14 |
| 696. D. 28 13 6 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 28 0 31 26 13 15 23 1 59 26 14 43 { 11 9 5 { 26 3 27 24 16 11 21 4 55 22 17 39 21 6 23 20 19 7 { 4 13 29 { 19 7 51 18 20 35 | 27 18 27 26 8 24 27 23 14 26 14 41 11 9 56 26 6 9 24 20 57 24 10 41 22 23 15 21 10 55 20 22 7 4 7 44 19 9 4 18 19 53 | 693. A.G. 28 6 32 | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. . ○ SEPT. . OCT. . NOV. . DEC. . | 23 15 41 24 4 25 { 9 22 47 { 24 17 9 23 5 53 22 18 37 21 7 21 20 20 5 19 8 49 { 3 3 11 { 17 21 33 17 10 17 15 23 1 15 11 45 | 26 0 26 24 9 51 10 3 47 24 18 1 23 1 43 22 9 57 20 19 45 20 8 0 18 22 59 3 2 8 17 16 20 17 11 0 16 5 35 15 22 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 692. F. March. <i>d. h. m.</i> 28 12 21 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 689. C.B. March. <i>d. h. m.</i> 23 5 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 14 0 29 | 14 13 23 | | JAN. . | 11 15 39 | 11 13 41 |
| | FEB. . | { 12 13 13 | 13 1 20 | | FEB. . | 10 4 23 | 10 7 57 |
| | ○ | { 27 7 35 | 27 4 26 | | MAR. . | 10 17 7 | 11 1 17 |
| | MAR. . | 14 1 57 | 14 10 49 | | APRIL | 9 5 51 | 9 16 38 |
| | APRIL | 12 14 41 | 12 18 33 | | MAY . | 8 18 35 | 9 5 30 |
| | MAY . | 12 3 25 | 12 1 26 | | JUNE . | { 7 7 19 | 7 16 2 |
| | JUNE . | 10 16 9 | 10 8 33 | | ○ | { 22 1 41 | 21 14 36 |
| | JULY . | 10 4 53 | 9 17 0 | | JULY . | 6 20 3 | 7 0 56 |
| | AUG. . | { 8 17 37 | 8 3 48 | | AUG. . | 5 8 47 | 5 9 9 |
| | ○ | { 23 11 59 | 23 16 47 | | SEPT. . | 3 21 31 | 3 17 41 |
| | SEPT. . | 7 6 21 | 6 17 36 | | OCT. . | 3 10 15 | 3 3 13 |
| | OCT. . | 6 19 5 | 6 10 23 | | Nov. . | 1 22 59 | 1 14 12 |
| | Nov. . | 5 7 49 | 5 5 17 | | DEC. ○ | { 1 11 43 | 1 2 52 |
| | DEC. . | 4 20 33 | 5 0 50 | | | { 16 6 5 | 16 17 25 |
| | | | | | | { 31 0 27 | 30 17 7 |
| 691. E. | JAN. . | 3 9 18 | 3 19 22 | 688. A. | JAN. . | 29 13 12 | 29 8 48 |
| | FEB. . | { 1 22 2 | 2 11 29 | | FEB. . | 28 1 56 | 28 1 19 |
| | ○ | { 16 16 24 | 16 10 52 | | MAR. . | 29 14 40 | 29 17 54 |
| 28 18 10 | MAR. . | 3 10 46 | 4 0 34 | 28 11 36 | APRIL | 28 3 24 | 23 9 43 |
| | APRIL | 1 23 30 | 2 10 42 | | MAY . | 27 16 8 | 28 0 0 |
| | MAY . | { 1 12 14 | 1 18 41 | | ○ | { 11 10 30 | 11 0 59 |
| | JUNE . | { 31 0 58 | 31 1 29 | | JUNE . | { 26 4 52 | 26 12 32 |
| | JULY . | 29 13 42 | 29 8 14 | | JULY . | 25 17 36 | 25 23 30 |
| | ○ | { 12 20 48 | 13 1 33 | | AUG. . | 24 6 20 | 24 9 33 |
| | AUG. . | { 27 15 10 | 27 1 49 | | SEPT. . | 22 19 4 | 22 10 21 |
| | SEPT. . | 26 3 54 | 25 14 21 | | OCT. . | 22 7 48 | 22 5 32 |
| | OCT. . | 25 16 38 | 25 5 57 | | Nov. . | 20 20 32 | 20 16 18 |
| | Nov. . | 21 5 22 | 23 23 59 | | ○ | { 5 14 54 | 5 22 3 |
| | DEC. . | 23 18 6 | 23 19 17 | | DEC. . | { 20 9 16 | 20 3 47 |
| 690. D. | JAN. . | 22 6 51 | 22 14 15 | 687. G. | JAN. . | 18 22 0 | 18 16 2 |
| | FEB. . | 20 19 35 | 21 7 24 | | FEB. . | 17 10 45 | 17 5 10 |
| 23 23 59 | MAR. . | 22 8 19 | 22 21 43 | | MAR. . | 18 23 29 | 18 19 17 |
| | APRIL | 20 21 3 | 21 9 4 | | APRIL | 17 12 13 | 17 10 16 |
| | MAY . | 20 9 47 | 20 17 59 | | MAY . | 17 0 57 | 17 1 41 |
| | JUNE . | 18 22 31 | 19 1 28 | | JUNE . | 15 13 41 | 15 16 55 |
| | JULY . | 18 11 15 | 18 8 36 | | JULY . | 15 2 25 | 15 7 25 |
| | AUG. . | 16 23 59 | 16 16 25 | | AUG. . | 13 15 9 | 13 20 50 |
| | SEPT. . | 15 12 43 | 15 1 48 | | SEPT. . | 12 3 53 | 12 9 13 |
| | OCT. . | 15 1 27 | 14 13 23 | | OCT. . | 11 16 37 | 11 20 52 |
| | Nov. . | 13 14 11 | 13 3 27 | | Nov. . | 10 5 21 | 10 8 4 |
| | DEC. . | { 13 2 55 | 12 19 43 | | DEC. . | 9 18 5 | 9 18 59 |
| | ○ | { 27 21 17 | 23 5 33 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 686. F. March. d. h. m. 28 23 14 | | d. h. m. | d. h. m. | B.C. 683. B. March. d. h. m. 28 16 40 | | d. h. m. | d. h. m. |
| | JAN. . | 8 6 49 | 8 5 39 | | JAN. . | 4 21 59 | 5 10 30 |
| | FEB. . | 6 19 33 | 6 16 10 | | FEB. . | 3 10 43 | 3 23 48 |
| | MAR. . | 8 8 17 | 8 2 56 | | MAR. . | 4 23 27 | 5 10 21 |
| | APRIL | { 6 21 1 | 6 14 29 | | APRIL | 3 12 11 | 3 18 44 |
| | ○ | { 21 15 23 | 22 2 13 | | MAY . | 3 0 55 | 3 1 48 |
| | MAY . | 6 9 45 | 6 3 18 | | JUNE . | 1 13 39 | { 1 8 36 |
| | JUNE . | 4 22 29 | 4 17 33 | | JULY . | { 1 2 23 | { 30 16 14 |
| | JULY . | 4 11 13 | 4 8 59 | | AUG. . | { 30 15 7 | 30 1 46 |
| | AUG. . | 2 23 57 | 3 0 57 | | SEPT. . | 29 3 51 | 28 14 6 |
| | SEPT. . | 1 12 41 | 1 16 43 | | OCT. . | 27 16 35 | 27 5 31 |
| | | { 1 1 25 | 1 7 42 | | NOV. . | 27 5 19 | 26 23 36 |
| | OCT. ○ | { 15 19 47 | 15 7 9 | | DEC. . | 25 18 3 | 25 19 5 |
| | | { 30 14 9 | 30 21 33 | | | 25 6 47 | 25 14 19 |
| | NOV. . | 29 2 53 | 29 10 11 | | | | |
| | DEC. . | 28 15 37 | 28 21 33 | 682. A. | JAN. . | 23 19 32 | 24 7 45 |
| 685. E.D. 23 5 3 | JAN. . | 27 4 22 | 27 7 44 | | ○ | { 7 13 54 | 7 8 56 |
| | FEB. . | 25 17 6 | 25 17 1 | 23 22 29 | FEB. . | { 22 8 16 | 22 22 18 |
| | MAR. . | 26 5 50 | 26 1 54 | | MAR. . | 23 21 0 | 24 9 47 |
| | ○ | { 10 0 12 | 10 12 29 | | APRIL | 22 9 44 | 22 18 40 |
| | APRIL | { 24 18 34 | 24 11 13 | | MAY . | 21 22 23 | 22 1 53 |
| | MAY . | 24 7 18 | 23 21 49 | | JUNE . | 20 11 12 | 20 8 33 |
| | JUNE . | 22 20 2 | 22 10 26 | | JULY . | 19 23 56 | 19 15 45 |
| | JULY . | 22 8 46 | 22 1 15 | | ○ | { 3 18 18 | 3 21 49 |
| | AUG. . | 20 21 30 | 20 17 52 | | AUG. . | { 18 12 40 | 18 0 33 |
| | SEPT. . | 19 10 14 | 19 11 21 | | SEPT. . | 17 1 24 | 16 11 46 |
| | ○ | { 4 4 36 | 3 19 8 | | OCT. . | 16 14 8 | 16 1 54 |
| | OCT. . | { 18 22 58 | 19 4 44 | | NOV. . | 15 2 52 | 14 18 47 |
| | NOV. . | 17 11 42 | 17 20 55 | | DEC. . | 14 15 36 | 14 13 33 |
| | DEC. . | 17 0 26 | 17 11 13 | 681. G.F. | JAN. . | { 13 4 20 | 13 8 47 |
| 684. C. 23 10 52 | JAN. . | 15 13 11 | 15 23 23 | | ○ | { 27 22 42 | 27 23 18 |
| | FEB. . | 14 1 55 | 14 9 30 | 28 4 18 | FEB. . | 11 17 4 | 12 2 52 |
| | MAR. . | { 15 14 39 | 15 18 2 | | MAR. . | 12 5 43 | 12 18 33 |
| | ○ | { 30 9 1 | 30 15 29 | | APRIL | 10 13 32 | 11 7 20 |
| | APRIL | 14 3 23 | 14 1 41 | | MAY . | 10 7 16 | 10 17 23 |
| | MAY . | 13 16 7 | 13 9 22 | | JUNE . | 8 20 0 | 9 1 31 |
| | JUNE . | 12 4 51 | 11 18 9 | | JULY . | { 8 8 44 | 8 8 46 |
| | JULY . | 11 17 35 | 11 5 4 | | ○ | { 23 3 6 | 22 22 44 |
| | AUG. . | 10 6 19 | 9 18 42 | | AUG. . | 6 21 28 | 6 16 17 |
| | SEPT. . | { 8 19 3 | 8 11 5 | | SEPT. . | 5 10 12 | 5 0 58 |
| | ○ | { 23 13 25 | 23 11 0 | | OCT. . | 4 22 56 | 4 11 30 |
| | OCT. . | 8 7 47 | 8 5 25 | | NOV. . | 3 11 40 | 3 0 22 |
| | NOV. . | 6 20 31 | 7 0 24 | | DEC. . | 3 0 24 | 2 15 32 |
| | DEC. . | 6 9 15 | 6 18 31 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 680. E. March. d. h. m. 28 10 7 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 677. B.A. March. d. h. m. 28 3 33 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. ○ | { 1 13 9 16 7 31 31 1 53 | 1 8 37 16 15 25 31 2 38 | | JAN. . | 28 17 3 | 28 15 9 |
| | FEB. . | ... | ... | | FEB. . | 27 5 47 | 27 1 29 |
| | MAR. . | { 1 14 37 31 3 21 | 1 20 22 31 12 41 | | MAR. . | 27 18 31 | 27 12 16 |
| | APRIL | 29 16 5 | 30 2 48 | | APRIL | 26 7 15 | 26 0 9 |
| | MAY . | 29 4 49 | 29 14 31 | | ○ | { 11 1 37 25 19 59 | 11 10 4 25 13 32 |
| | JUNE . | 27 17 33 | 28 0 15 | | MAY . | 24 8 43 | 24 4 25 |
| | ○ | { 12 11 55 27 6 17 | 12 0 38 27 8 54 | | JUNE . | 23 21 27 | 23 20 20 |
| | JULY . | 25 19 1 | 25 17 24 | | JULY . | 22 10 11 | 22 12 31 |
| | AUG. . | 24 7 45 | 24 2 33 | | AUG. . | 20 22 55 | 21 4 14 |
| | SEPT. . | 23 20 29 | 23 12 54 | | SEPT. . | 20 11 39 | 20 18 58 |
| | OCT. . | 22 9 13 | 22 0 43 | | ○ | { 4 6 1 19 0 23 | 3 18 45 19 8 25 |
| | NOV. . | 21 21 57 | 21 14 3 | | NOV. . | 18 13 7 | 18 20 26 |
| | DEC. . | | | | DEC. . | | |
| 679. D. 28 15 56 | JAN. . | 20 10 42 | 20 4 51 | 676. G. 28 9 22 | JAN. . | 17 1 52 | 17 7 8 |
| | FEB. . | 18 23 26 | 18 20 43 | | FEB. . | 15 14 36 | 15 16 38 |
| | MAR. . | 20 12 10 | 20 13 8 | | MAR. . | 17 3 20 | 17 1 24 |
| | APRIL | 19 0 54 | 19 5 16 | | APRIL | 15 16 4 | 15 10 9 |
| | MAY . | 18 13 38 | 18 20 21 | | MAY . | 15 4 48 | 14 19 48 |
| | ○ | { 2 8 0 17 2 22 | 2 0 35 17 9 54 | | JUNE . | 13 17 32 | 13 7 15 |
| | JUNE . | 16 15 6 | 16 21 47 | | JULY . | 13 6 16 | 12 20 58 |
| | AUG. . | 15 3 50 | 15 8 28 | | AUG. . | 11 19 0 | 11 12 52 |
| | SEPT. . | 13 16 34 | 13 18 35 | | SEPT. . | 10 7 44 | 10 6 16 |
| | OCT. . | 13 5 18 | 13 4 44 | | OCT. . | 9 20 28 | 10 0 5 |
| | NOV. . | { 11 18 2 26 12 24 | 11 15 18 26 16 39 | | NOV. . | 8 9 12 | 8 17 11 |
| | ○ | | | | DEC. . | 7 21 56 | 8 8 36 |
| | DEC. . | 11 6 46 | 11 2 25 | | | | |
| 678. C. 23 21 45 | JAN. . | 9 19 30 | 9 14 5 | 675. F. 23 15 11 | JAN. . | 6 10 40 | 6 21 51 |
| | FEB. . | 8 8 14 | 8 2 30 | | FEB. . | 4 23 24 | 5 8 52 |
| | MAR. . | 9 20 58 | 9 15 48 | | MAR. . | { 6 12 8 21 6 30 | 6 17 58 21 10 41 |
| | APRIL | 8 9 42 | 8 6 5 | | ○ | 5 0 52 | 5 1 46 |
| | MAY . | { 7 22 26 22 16 48 | 7 21 10 22 17 23 | | APRIL | 4 13 36 | 4 9 9 |
| | ○ | | | | MAY . | 3 2 20 | 2 17 8 |
| | JUNE . | 6 11 10 | 6 12 34 | | JUNE . | 2 15 4 | { 2 2 50 31 15 5 |
| | JULY . | 5 23 54 | 6 3 38 | | JULY . | | |
| | AUG. . | 4 12 38 | 4 17 51 | | AUG. . | { 1 3 48 30 16 32 | 30 6 13 |
| | SEPT. . | 3 1 22 | 3 7 1 | | ○ | { 14 10 54 29 5 16 | 14 10 27 28 23 51 |
| | OCT. . | 2 14 6 | 2 19 17 | | SEPT. . | 23 18 0 | 28 18 50 |
| | ○ | { 1 2 50 15 21 12 | 1 6 54 15 15 44 | | OCT. . | 27 6 44 | 27 13 42 |
| | NOV. ○ | 30 15 34 | 30 13 2 | | NOV. . | 26 19 28 | 27 6 58 |
| | DEC. . | 30 4 18 | 30 4 45 | | DEC. . | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 674. E. March. d. h. m. 23 21 0 | | d. h. m. | d. h. m. | B.C. 671. A. March. d. h. m. 28 14 26 | | d. h. m. | d. h. m. |
| | JAN. . | 25 8 13 | 25 21 39 | | JAN. . | 7 5 1 | 7 14 23 |
| | FEB. . | 23 20 57 | 24 9 25 | | FEB. . | 21 23 23 | 21 21 26 |
| | ○ | { 10 15 19 | 10 11 42 | | MAR. . | 20 12 7 | 20 15 15 |
| | MAR. . | { 25 9 41 | 25 18 40 | | APRIL | 22 0 51 | 22 8 14 |
| | APRIL | 23 22 25 | 24 2 10 | | MAY . | 20 13 35 | 20 23 27 |
| | MAY . | 23 11 9 | 23 8 53 | | JUNE . | 20 2 19 | 20 12 23 |
| | JUNE . | 21 23 53 | 21 15 56 | | ○ | { 3 9 25 | 2 21 32 |
| | JULY . | 21 12 37 | 21 0 26 | | JULY . | { 18 3 47 | 18 8 25 |
| | AUG. . | 20 1 21 | 19 11 21 | | AUG. . | 16 16 31 | 16 17 6 |
| | ○ | { 3 19 43 | 4 0 44 | | SEPT. . | 15 5 15 | 15 2 3 |
| | SEPT. . | { 18 14 5 | 18 1 18 | | OCT. . | 14 17 59 | 14 11 55 |
| | OCT. . | 18 2 49 | 17 18 13 | | NOV. . | 13 6 43 | 12 23 2 |
| | NOV. . | 16 15 33 | 16 13 14 | | DEC. . | { 12 19 27 | 12 11 32 |
| | DEC. . | 16 4 17 | 16 8 50 | | ○ | { 27 13 50 | 28 1 54 |
| 673. D.C. 28 2 49 | JAN. . | 14 17 2 | 15 3 19 | 670. G. 28 20 15 | JAN. . | 11 8 12 | 11 1 26 |
| | FEB. . | { 13 5 46 | 13 19 18 | | FEB. . | 9 20 56 | 9 16 30 |
| | ○ | { 23 0 8 | 27 18 43 | | MAR. . | 11 9 40 | 11 8 27 |
| | MAR. . | 13 18 30 | 14 8 12 | | APRIL | 9 22 24 | 10 0 37 |
| | APRIL | 12 7 14 | 12 18 14 | | MAY . | 9 11 8 | 9 16 14 |
| | MAY . | 11 19 58 | 12 2 7 | | JUNE . | { 7 23 52 | 8 6 41 |
| | JUNE . | 10 8 42 | 10 8 57 | | ○ | { 22 18 14 | 22 8 16 |
| | JULY . | 9 21 26 | 9 15 49 | | JULY . | 7 12 36 | 7 19 32 |
| | AUG. . | { 8 10 10 | 7 23 48 | | AUG. . | 6 1 20 | 6 7 1 |
| | ○ | { 23 4 32 | 23 8 54 | | SEPT. . | 4 14 4 | 4 17 37 |
| | SEPT. . | 6 22 51 | 6 9 49 | | OCT. . | 4 2 43 | 4 8 55 |
| | OCT. . | 6 11 38 | 5 22 33 | | NOV. . | 2 15 32 | 2 14 25 |
| | NOV. . | 5 0 22 | 4 14 8 | | DEC. ○ | { 2 4 16 | 2 1 16 |
| | DEC. . | 4 13 6 | 4 8 4 | | | { 16 22 33 | 17 6 7 |
| 672. B. 28 8 33 | JAN. . | 3 1 50 | 3 3 9 | 669. F.E. 28 2 4 | JAN. . | 30 5 44 | 30 0 20 |
| | FEB. . | 1 14 34 | 1 21 50 | | FEB. . | 28 13 28 | 28 12 51 |
| | MAR. . | 3 3 13 | 3 14 43 | | MAR. . | 29 7 12 | 29 2 21 |
| | APRIL | 1 16 2 | 2 4 54 | | APRIL | 27 19 56 | 27 16 52 |
| | MAY . | { 1 4 46 | 1 16 14 | | MAY . | 27 8 40 | 27 8 7 |
| | JUNE . | { 30 17 30 | 31 1 15 | | ○ | { 11 3 2 | 11 0 25 |
| | JULY . | 29 6 14 | 29 8 55 | | JUNE . | { 25 21 24 | 25 23 29 |
| | AUG. . | 28 18 58 | 28 16 21 | | JULY . | 25 10 8 | 25 14 21 |
| | SEPT. . | 27 7 42 | 27 0 30 | | AUG. . | 23 22 52 | 24 4 20 |
| | OCT. . | 25 20 26 | 25 10 11 | | SEPT. . | 22 11 36 | 22 17 20 |
| | NOV. . | 25 9 10 | 24 21 55 | | OCT. . | 22 0 20 | 22 5 29 |
| | DEC. . | 23 21 54 | 23 11 55 | | NOV. . | 20 13 4 | 20 16 58 |
| | | 23 10 38 | 23 3 59 | | DEC. . | 20 1 48 | 20 3 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 668. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 665. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | A.G. | | | |
| March. | JAN. . | 18 14 33 | 18 14 19 | March. | JAN. . | 16 5 43 | 16 18 46 |
| <i>d. h. m.</i> | FEB. . | 17 3 17 | 17 0 23 | <i>d. h. m.</i> | FEB. . | 14 18 27 | 15 7 55 |
| 28 7 53 | MAR. . | 18 16 1 | 18 10 35 | 28 1 19 | MAR. . | 15 7 11 | 15 18 14 |
| | APRIL . | 17 4 45 | 16 21 35 | | APRIL . | 13 19 55 | 14 2 24 |
| | ○ | { 1 23 7 | 2 9 32 | | MAY . | 13 8 39 | 13 9 16 |
| | MAY . | { 16 17 29 | 16 9 59 | | JUNE . | 11 21 23 | 11 16 1 |
| | JUNE . | 15 6 13 | 15 0 5 | | JULY . | 11 10 7 | 10 23 40 |
| | JULY . | 14 18 57 | 14 15 36 | | AUG. . | 9 22 51 | 9 9 20 |
| | AUG. . | 13 7 41 | 13 7 57 | | SEPT. . | 8 11 35 | 7 21 48 |
| | SEPT. . | 11 20 25 | 12 0 15 | | OCT. . | 8 0 19 | 7 13 22 |
| | OCT. . | { 11 9 9 | 11 15 50 | | NOV. . | 6 13 3 | 6 7 32 |
| | ○ | { 26 3 31 | 25 15 33 | | DEC. . | 6 1 47 | 6 3 4 |
| | NOV. . | 9 21 53 | 10 6 11 | | | | |
| | DEC. . | 9 10 37 | 9 19 0 | | | | |
| 667. | JAN. . | 7 23 21 | 8 6 19 | 664. | JAN. . | 4 14 31 | 4 22 15 |
| C. | FEB. . | 6 12 5 | 6 16 14 | F. | FEB. . | { 3 3 15 | 3 15 32 |
| 23 13 42 | MAR. . | 8 0 49 | 8 1 4 | 23 7 8 | ○ | { 17 21 37 | 17 17 1 |
| | APRIL . | { 6 13 33 | 6 9 30 | | MAR. . | 4 15 59 | 5 5 56 |
| | ○ | { 21 7 55 | 21 19 25 | | APRIL . | 3 4 43 | 3 17 16 |
| | MAY . | 6 2 17 | 5 18 23 | | MAY . | 2 17 27 | 3 2 4 |
| | JUNE . | 4 15 1 | 4 4 42 | | JUNE . | { 1 6 11 | 1 9 17 |
| | JULY . | 4 3 45 | 3 17 11 | | ○ | { 30 18 55 | 30 16 4 |
| | AUG. . | 2 16 29 | 2 8 6 | | JULY . | 30 7 33 | 29 23 28 |
| | SEPT. . | { 1 5 13 | 1 1 1 | | ○ | { 14 2 1 | 14 4 55 |
| | ○ | { 30 17 57 | 30 18 59 | | AUG. . | { 28 20 23 | 28 8 30 |
| | OCT. . | { 15 12 19 | 15 3 45 | | SEPT. . | 27 9 7 | 26 19 55 |
| | NOV. . | { 30 6 41 | 30 12 49 | | OCT. . | 26 21 51 | 26 10 7 |
| | DEC. . | 23 19 25 | 29 5 22 | | NOV. . | 25 10 35 | 25 2 56 |
| | | 23 8 9 | 23 19 47 | | DEC. . | 24 23 19 | 24 21 30 |
| 666. | JAN. . | 26 20 54 | 27 7 51 | 663. | JAN. . | 23 12 4 | 23 16 27 |
| B. | FEB. . | 25 9 38 | 25 17 43 | E. | ○ | { 7 6 26 | 7 7 48 |
| 23 19 30 | MAR. . | 26 22 22 | 27 1 54 | 23 12 57 | FEB. . | { 22 0 48 | 22 10 14 |
| | ○ | { 10 16 44 | 10 22 11 | | MAR. . | 23 13 32 | 24 1 45 |
| | APRIL . | { 25 11 6 | 25 9 13 | | APRIL . | 22 2 16 | 22 14 27 |
| | MAY . | 24 23 50 | 24 16 33 | | MAY . | 21 15 0 | 22 0 31 |
| | JUNE . | 23 12 34 | 23 1 18 | | JUNE . | 20 3 44 | 20 8 53 |
| | JULY . | 23 1 18 | 22 12 10 | | JULY . | 19 16 28 | 19 16 27 |
| | AUG. . | 21 14 2 | 21 1 56 | | ○ | { 3 10 50 | 3 5 33 |
| | SEPT. . | 20 2 46 | 19 18 31 | | AUG. . | { 18 5 12 | 18 0 18 |
| | ○ | { 4 21 8 | 4 19 36 | | SEPT. . | 16 17 56 | 16 9 18 |
| | OCT. . | { 19 15 30 | 19 13 8 | | OCT. . | 16 6 40 | 15 20 4 |
| | NOV. . | 18 4 14 | 18 8 26 | | NOV. . | 14 19 21 | 14 8 56 |
| | DEC. . | 17 16 58 | 18 2 43 | | DEC. . | 14 8 8 | 13 23 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---|---|--|--|---|---|--|
| B.C. 662. D. March. d. h. m. 28 18 45 | JAN. . O FEB. . MAR. . APRIL MAY . JUNE . JULY . O AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. { 12 20 53 27 15 15 11 9 37 12 22 21 11 11 5 10 23 49 9 12 33 { 9 1 17 23 19 39 7 14 1 6 2 45 5 15 29 4 4 13 3 16 57 | d. h. m. 12 16 33 27 23 59 11 10 5 18 3 24 11 19 29 11 9 36 9 21 30 9 7 36 23 7 32 7 16 40 6 1 38 5 11 10 3 21 43 3 9 30 | B.C. 659. G. March. d. h. m. 28 12 12 | JAN. . FEB. . MAR. . APRIL MAY . O JUNE . JULY . AUG. . SEPT. . OCT. . O NOV. . DEC. . | d. h. m. 9 12 2 8 0 47 9 13 31 8 2 15 { 7 14 59 22 9 21 6 3 43 5 16 27 4 5 11 2 17 55 { 2 6 39 31 19 23 { 15 13 45 30 8 7 29 20 51 | d. h. m. 9 13 32 7 23 34 9 9 22 7 19 37 7 7 2 22 17 21 5 20 8 5 11 0 4 3 9 2 19 50 2 12 9 1 3 24 15 3 10 30 17 10 30 5 15 |
| 661. C.B. 28 0 34 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . O DEC. . | { 2 5 41 31 18 25 ... 1 7 9 80 19 53 29 8 37 28 21 21 27 10 5 26 22 49 25 11 33 24 0 17 23 13 1 22 1 45 { 6 20 7 21 14 29 | 1 22 32 31 12 47 ... 1 4 3 30 19 56 29 11 48 29 2 54 27 16 42 27 5 4 25 16 18 24 2 57 23 13 30 22 0 15 7 0 39 21 11 15 | 658. F. 28 18 1 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 28 9 35 26 22 19 28 11 3 26 23 47 26 12 31 25 1 15 24 13 59 23 2 43 21 15 27 21 4 11 19 16 55 19 5 39 | 28 15 43 27 0 51 28 9 11 26 17 30 26 2 50 24 14 4 24 3 48 22 19 53 21 13 41 21 7 59 20 1 28 19 17 7 |
| 660. A. 28 6 23 | JAN. . FEB. . MAR. . APRIL MAY . O JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . O DEC. . | 20 3 14 18 15 53 20 4 42 18 17 26 18 6 10 { 2 0 32 16 18 54 16 7 38 14 20 22 13 9 6 12 21 50 { 11 10 34 26 4 56 10 23 18 | 19 22 35 18 10 26 19 23 7 18 12 53 18 3 41 2 0 50 16 19 3 16 10 24 15 1 7 13 14 55 13 3 44 11 15 44 25 23 47 11 3 0 | 657. E.D. 27 23 50 | JAN. . FEB. . MAR. . O APRIL MAY . JUNE . JULY . AUG. . SEPT. . O OCT. . NOV. . DEC. . | 17 18 24 16 7 8 { 16 19 52 31 14 14 15 8 36 14 21 20 13 10 4 12 22 48 11 11 32 { 10 0 16 24 18 38 9 13 0 8 1 44 7 14 23 | 18 6 22 16 17 10 17 1 57 31 17 29 15 9 26 14 16 33 13 0 22 12 10 1 10 22 20 9 13 38 24 18 55 9 7 30 8 2 48 7 21 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|-----------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 644. B. March. d. h. m. 28 3 24 | JAN. . | d. h. m. 23 4 36 | d. h. m. 23 0 24 | B.C. 641. F.E. March. d. h. m. 27 20 51 | JAN. . | d. h. m. 20 19 46 | d. h. m. 20 22 15 |
| | O | { 6 22 58 | 7 8 24 | | FEB. . | 19 8 30 | 19 7 49 |
| | FEB. . | { 21 17 20 | 21 17 23 | | MAR. . | 19 21 14 | 19 17 6 |
| | MAR. . | 23 6 4 | 23 10 19 | | APRIL | 18 9 58 | 18 2 51 |
| | APRIL | 21 18 48 | 22 2 10 | | MAY . | 17 22 42 | 17 13 51 |
| | MAY . | 21 7 32 | 21 16 13 | | O | { 1 17 4 | 2 0 37 |
| | JUNE . | 19 20 16 | 20 4 28 | | JUNE . | { 16 11 26 | 16 2 45 |
| | JULY . | 19 9 0 | 19 14 58 | | JULY . | 16 0 10 | 15 17 38 |
| | O | { 3 3 22 | 2 14 37 | | AUG. . | 14 12 54 | 14 10 5 |
| | AUG. . | { 17 21 44 | 18 0 33 | | SEPT. . | 13 1 38 | 13 3 16 |
| | SEPT. . | 16 10 28 | 16 9 58 | | OCT. . | 12 14 22 | 12 20 8 |
| | OCT. . | 15 23 12 | 15 19 53 | | NOV. . | { 11 3 6 | 11 11 52 |
| | NOV. . | 14 11 56 | 14 6 36 | | O | { 25 21 28 | 25 11 38 |
| | DEC. . | 14 0 40 | 13 18 17 | | DEC. . | 10 15 50 | 11 1 53 |
| 643. A. 28 9 13 | JAN. . | 12 13 23 | 12 6 55 | 640. D. 28 2 40 | JAN. . | 9 4 35 | 9 13 53 |
| | FEB. . | 11 2 8 | 10 20 38 | | FEB. . | 7 17 19 | 8 0 11 |
| | MAR. . | 12 14 53 | 12 11 18 | | MAR. . | 9 6 3 | 9 8 55 |
| | APRIL | 11 3 37 | 11 2 42 | | APRIL | 7 18 47 | 7 16 50 |
| | MAY . | 10 16 21 | 10 13 13 | | MAY . | 7 7 31 | 7 0 49 |
| | JUNE . | 9 5 5 | 9 9 27 | | JUNE . | 5 20 15 | 5 9 53 |
| | JULY . | 8 17 49 | 8 23 34 | | JULY . | 5 8 59 | 4 21 0 |
| | AUG. . | 7 6 33 | 7 12 26 | | AUG. . | 3 21 43 | 3 10 46 |
| | SEPT. . | 5 19 17 | 6 0 17 | | SEPT. . | 2 10 27 | 2 8 7 |
| | OCT. . | 5 8 1 | 5 11 27 | | O | { 1 23 11 | 1 21 16 |
| | NOV. . | 3 20 45 | 3 22 24 | | OCT. . | { 31 11 55 | 31 15 57 |
| | DEC. . | { 3 9 29 | 3 9 15 | | NOV. . | 30 0 39 | 30 9 46 |
| | O | { 18 3 51 | 18 8 37 | | DEC. . | 29 13 23 | 30 1 34 |
| 642. G. 28 15 2 | JAN. . | { 1 22 13 | 1 20 4 | 639. C. 28 8 29 | JAN. . | 28 2 7 | 28 14 44 |
| | FEB. . | { 31 10 57 | 31 6 59 | | FEB. . | 26 14 51 | 27 1 18 |
| | ... | ... | ... | | MAR. . | 28 3 35 | 23 9 47 |
| | MAR. . | { 1 23 41 | 1 18 14 | | O | { 11 21 57 | 12 0 11 |
| | APRIL | { 31 12 25 | 31 6 20 | | APRIL | { 26 16 19 | 26 16 59 |
| | MAY . | 30 1 9 | 29 19 36 | | MAY . | 26 5 3 | 25 23 55 |
| | O | { 13 8 15 | 13 8 17 | | JUNE . | 24 17 47 | 24 7 39 |
| | JUNE . | { 28 2 37 | 28 1 32 | | JULY . | 24 6 31 | 23 17 19 |
| | JULY . | 27 15 21 | 27 17 12 | | AUG. . | 22 19 15 | 22 5 43 |
| | AUG. . | 26 4 5 | 26 8 29 | | SEPT. . | 21 7 59 | 20 21 13 |
| | SEPT. . | 24 16 49 | 24 22 54 | | O | { 6 2 21 | 6 3 29 |
| | OCT. . | 24 5 33 | 24 12 16 | | OCT. . | { 20 20 43 | 20 15 17 |
| | NOV. . | 22 18 17 | 23 0 35 | | NOV. . | 19 9 27 | 19 10 43 |
| | O | { 7 12 39 | 7 7 50 | | DEC. . | 18 22 11 | 19 5 53 |
| | DEC. . | { 22 7 1 | 22 11 54 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 638. B. March. <i>d. h. m.</i> 28 14 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 635. E. March. <i>d. h. m.</i> 28 7 44 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 10 56 | 17 23 12 | | JAN. . | { 14 2 5 | 18 20 11 |
| | FEB. . | 15 23 40 | 16 13 39 | | ○ | { 28 20 27 | 29 7 25 |
| | MAR. . | 17 12 24 | 18 1 5 | | FEB. . | 12 14 50 | 12 12 36 |
| | ○ | { 1 6 46 | 1 1 54 | | MAR. . | 14 3 34 | 14 5 25 |
| | APRIL | { 16 1 8 | 16 9 56 | | APRIL | 12 16 18 | 12 21 46 |
| | MAY . | 15 13 52 | 15 17 8 | | MAY . | 12 5 2 | 12 12 47 |
| | JUNE . | 14 2 36 | 13 23 46 | | JUNE . | 10 17 46 | 11 2 2 |
| | JULY . | 13 15 20 | 13 6 55 | | JULY . | { 10 6 30 | 10 13 30 |
| | AUG. . | 12 4 4 | 11 15 41 | | ○ | { 25 0 52 | 24 11 41 |
| | SEPT. . | { 10 16 48 | 10 2 55 | | AUG. . | 8 19 14 | 8 23 40 |
| | ○ | { 25 11 10 | 25 16 56 | | SEPT. . | 7 7 58 | 7 9 21 |
| | OCT. . | 10 5 32 | 9 17 9 | | OCT. . | 6 20 42 | 6 19 10 |
| | NOV. . | 8 18 16 | 8 10 14 | | NOV. . | 5 9 26 | 5 5 35 |
| | DEC. . | 8 7 0 | 8 5 11 | | DEC. . | 4 22 10 | 4 16 47 |
| 637. A.G. 27 20 6 | JAN. . | 6 19 45 | 7 0 35 | 634. D. 28 13 33 | JAN. . | { 3 10 55 | 3 4 48 |
| | FEB. . | 5 8 29 | 5 18 44 | | ○ | { 18 5 17 | 18 18 26 |
| | MAR. . | { 5 21 13 | 6 10 24 | | FEB. . | 1 23 39 | 1 17 42 |
| | ○ | { 20 15 35 | 20 10 4 | | MAR. . | 3 12 23 | 3 7 34 |
| | APRIL | 4 9 57 | 4 23 3 | | APRIL | 2 1 7 | 1 22 22 |
| | MAY . | 3 22 41 | 4 8 57 | | MAY . | { 1 13 51 | 1 13 47 |
| | JUNE . | 2 11 25 | 2 16 52 | | ○ | { 31 2 35 | 31 5 12 |
| | JULY . | { 2 0 9 | 1 23 58 | | JUNE . | 29 15 19 | 29 20 0 |
| | ○ | { 31 12 53 | 31 7 16 | | ○ | { 14 9 41 | 13 23 5 |
| | AUG. . | 30 1 37 | 29 15 46 | | JULY . | { 29 4 3 | 29 9 44 |
| | ○ | { 13 19 59 | 13 23 56 | | AUG. . | 27 16 47 | 27 22 21 |
| | SEPT. . | { 28 14 21 | 28 2 17 | | SEPT. . | 26 5 31 | 26 10 6 |
| | OCT. . | 28 3 5 | 27 15 15 | | OCT. . | 25 18 15 | 25 21 20 |
| | NOV. . | 26 15 49 | 26 6 41 | | NOV. . | 24 6 59 | 24 8 19 |
| | DEC. . | 26 4 33 | 26 0 8 | | DEC. . | 23 19 43 | 23 19 7 |
| 636. F. 28 1 55 | JAN. . | 24 17 17 | 24 18 30 | 633. C.B. 27 19 22 | ○ | { 7 14 5 | 7 22 0 |
| | FEB. . | 23 6 1 | 23 12 32 | | JAN. . | { 22 8 27 | 22 5 47 |
| | MAR. . | 24 18 45 | 25 4 56 | | FEB. . | 20 21 11 | 20 16 33 |
| | APRIL | 23 7 29 | 23 18 55 | | MAR. . | 21 9 55 | 21 3 52 |
| | MAY . | 22 20 13 | 23 6 22 | | APRIL | 19 22 39 | 19 16 15 |
| | JUNE . | 21 8 57 | 21 15 47 | | MAY . | 19 11 23 | 19 5 59 |
| | JULY . | 20 21 41 | 21 0 4 | | JUNE . | 18 0 7 | 17 20 59 |
| | AUG. . | 19 10 25 | 19 8 13 | | ○ | { 2 18 29 | 2 15 26 |
| | SEPT. . | 17 23 9 | 17 17 7 | | JULY . | { 17 12 51 | 17 12 44 |
| | OCT. . | 17 11 53 | 17 3 21 | | AUG. . | 16 1 35 | 16 4 31 |
| | NOV. . | 16 0 37 | 15 15 16 | | SEPT. . | 14 14 19 | 14 19 42 |
| | DEC. . | 15 13 21 | 15 4 55 | | OCT. . | 14 3 3 | 14 9 54 |
| | | | | | NOV. . | 12 15 47 | 12 22 57 |
| | | | | | DEC. . | 12 4 31 | 12 10 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 632. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 629. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. | | | |
| March. | JAN. . | 10 17 16 | 10 21 34 | March. | JAN. . | 8 8 26 | 8 18 51 |
| <i>d. h. m.</i> | FEB. . | 9 6 0 | 9 7 18 | <i>d. h. m.</i> | FEB. . | 6 21 10 | 7 10 46 |
| 28 1 10 | MAR. . | 10 18 44 | 10 16 26 | 27 18 37 | MAR. . | 7 9 54 | 7 23 36 |
| | APRIL | 9 7 28 | 9 1 35 | | APRIL | 5 22 38 | 6 9 34 |
| | MAY . | { 8 20 12 | 8 11 39 | | MAY . | 5 11 22 | 5 17 25 |
| | ○ | { 23 14 34 | 23 23 58 | | JUNE . | 4 0 6 | 4 0 11 |
| | JUNE . | 7 8 56 | 6 23 25 | | JULY . | 3 12 50 | 3 6 59 |
| | JULY . | 6 21 40 | 6 13 17 | | AUG. . | { 2 1 34 | 1 14 54 |
| | AUG. . | 5 10 24 | 5 5 10 | | | { 31 14 18 | 31 0 55 |
| | SEPT. . | 3 23 8 | 3 22 18 | | SEPT. . | 30 3 2 | 29 13 41 |
| | OCT. . | 3 11 52 | 3 15 42 | | OCT. . | 29 15 46 | 29 5 26 |
| | NOV. . | { 2 0 36 | 2 8 20 | | NOV. . | 28 4 30 | 27 23 34 |
| | ○ | { 16 18 58 | 16 8 37 | | DEC. . | 27 17 14 | 27 18 52 |
| | DEC. . | { 1 13 20 | 1 23 24 | | | | |
| | | { 31 2 4 | 31 12 30 | | | | |
| 631. | JAN. . | 29 14 49 | 29 23 33 | 628. | JAN. . | 26 5 59 | 26 13 44 |
| G. | FEB. . | 23 3 33 | 23 8 47 | C. | FEB. . | 24 18 43 | 25 6 39 |
| 28 6 59 | MAR. . | 29 16 17 | 29 16 51 | 28 0 26 | ○ | { 11 13 5 | 11 8 50 |
| | APRIL | 28 5 1 | 23 0 29 | | MAR. . | { 26 7 27 | 26 20 45 |
| | ○ | { 12 23 23 | 13 9 4 | | APRIL | 24 20 11 | 25 7 55 |
| | MAY . | { 27 17 45 | 27 8 44 | | MAY . | 24 8 55 | 24 16 44 |
| | JUNE . | 26 6 29 | 25 18 40 | | JUNE . | 22 21 39 | 23 0 12 |
| | JULY . | 25 19 13 | 25 7 4 | | JULY . | 22 10 23 | 22 7 23 |
| | AUG. . | 24 7 57 | 23 22 15 | | AUG. . | 20 23 7 | 20 15 20 |
| | SEPT. . | 22 20 41 | 22 15 47 | | ○ | { 4 17 29 | 4 19 30 |
| | OCT. . | 22 9 25 | 22 10 33 | | SEPT. . | { 19 11 51 | 19 0 54 |
| | ○ | { 6 3 47 | 5 21 21 | | OCT. . | 19 0 35 | 18 12 41 |
| | NOV. . | { 20 22 9 | 21 5 8 | | NOV. . | 17 13 19 | 17 2 53 |
| | DEC. . | 20 10 53 | 20 22 8 | | DEC. . | 17 2 3 | 16 19 18 |
| 630. | JAN. . | 18 23 37 | 19 12 38 | 627. | JAN. . | 15 14 47 | 15 13 11 |
| F. | FEB. . | 17 12 21 | 18 0 23 | B. | FEB. . | { 14 3 31 | 14 7 20 |
| 28 12 43 | MAR. . | 19 1 5 | 19 9 42 | 28 6 15 | ○ | { 23 21 53 | 1 0 18 |
| | APRIL | 17 13 49 | 17 17 18 | | MAR. . | { 15 16 15 | 16 0 31 |
| | ○ | { 2 8 11 | 2 11 21 | | APRIL | 14 4 59 | 14 15 41 |
| | MAY . | { 17 2 33 | 17 0 9 | | MAY . | 13 17 43 | 14 4 25 |
| | JUNE . | 15 15 17 | 15 7 17 | | JUNE . | 12 6 27 | 12 14 51 |
| | JULY . | 15 4 1 | 14 15 52 | | JULY . | 11 19 11 | 11 23 44 |
| | AUG. . | 13 16 45 | 13 2 52 | | AUG. . | { 10 7 55 | 10 8 2 |
| | SEPT. . | 12 5 29 | 11 16 54 | | ○ | { 25 2 17 | 24 19 34 |
| | OCT. . | { 11 18 13 | 11 9 53 | | SEPT. . | 8 20 39 | 8 16 42 |
| | ○ | { 26 12 35 | 26 13 7 | | OCT. . | 8 9 23 | 8 2 21 |
| | NOV. . | 10 6 57 | 10 4 54 | | NOV. . | 6 22 7 | 6 13 29 |
| | DEC. . | 9 19 41 | 10 0 26 | | DEC. . | 6 10 51 | 6 2 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 626. A. March. <i>d. h. m.</i> 28 12 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 623. D. March. <i>d. h. m.</i> 28 5 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 4 23 36 | 4 16 32 | | JAN. . | { 1 14 45 | 1 20 44 |
| | FEB. . | 3 12 20 | 3 8 10 | | FEB. . | { 31 3 30 | 31 6 49 |
| | ○ | 18 6 42 | 18 16 41 | | ... | ... | ... |
| | MAR. . | 5 1 4 | 5 0 36 | | MAR. . | { 1 16 14 | 1 15 58 |
| | APRIL . | 3 13 48 | 3 17 5 | | ... | { 31 4 58 | 31 0 46 |
| | MAY . | 3 2 32 | 3 8 46 | | APRIL . | 29 17 42 | 29 10 3 |
| | JUNE . | 1 15 16 | 1 22 59 | | MAY . | 29 6 26 | 28 20 48 |
| | JULY . | { 1 4 0 | 1 11 28 | | ○ | { 13 0 48 | 13 7 54 |
| | ○ | { 30 16 44 | 30 22 27 | | JUNE . | { 27 19 10 | 27 9 26 |
| | AUG. . | { 14 11 6 | 13 21 54 | | JULY . | 27 7 54 | 27 0 26 |
| | SEPT. . | { 29 5 28 | 29 8 32 | | AUG. . | 25 20 38 | 25 17 10 |
| | OCT. . | 27 18 12 | 27 18 28 | | SEPT. . | 24 9 22 | 24 10 49 |
| | NOV. . | 27 6 56 | 27 4 43 | | OCT. . | 23 22 6 | 24 4 12 |
| | DEC. . | 25 19 40 | 25 15 33 | | NOV. . | 22 10 50 | 22 20 21 |
| | | 25 8 24 | 25 3 3 | | ○ | { 7 5 12 | 6 20 8 |
| | | | | | DEC. . | { 21 23 34 | 22 10 33 |
| 625. G.F. 27 17 52 | JAN. . | 23 21 8 | 23 15 17 | 622. C. 28 11 19 | JAN. . | 20 12 18 | 20 22 32 |
| | FEB. . | 22 9 52 | 22 4 21 | | FEB. . | 19 1 2 | 19 8 30 |
| | MAR. . | 22 22 36 | 22 18 24 | | MAR. . | 20 13 46 | 20 16 53 |
| | APRIL . | 21 11 20 | 21 9 19 | | APRIL . | 19 2 30 | 19 0 25 |
| | MAY . | 21 0 4 | 21 0 43 | | MAY . | 18 15 14 | 18 8 6 |
| | JUNE . | 19 12 48 | 19 15 58 | | JUNE . | 17 3 58 | 16 16 58 |
| | JULY . | 19 1 32 | 19 6 28 | | JULY . | 16 16 42 | 16 4 2 |
| | AUG. . | 17 14 16 | 17 19 54 | | AUG. . | 15 5 26 | 14 17 53 |
| | SEPT. . | 16 3 0 | 16 8 21 | | SEPT. . | 13 18 10 | 13 10 27 |
| | OCT. . | 15 15 44 | 15 20 3 | | OCT. . | 13 6 54 | 13 4 56 |
| | NOV. . | 14 4 28 | 14 7 18 | | NOV. . | 11 19 38 | 11 23 57 |
| | DEC. . | { 13 17 12 | 13 18 12 | | DEC. . | 11 8 22 | 11 18 1 |
| | ○ | { 28 11 31 | 28 16 31 | | | | |
| 624. E. 27 23 41 | JAN. . | 12 5 57 | 12 4 48 | 621. B.A. 27 17 8 | JAN. . | 9 21 7 | 10 9 53 |
| | FEB. . | 10 18 41 | 10 15 15 | | FEB. . | 8 9 51 | 8 22 57 |
| | MAR. . | 12 7 25 | 12 1 57 | | MAR. . | 8 22 35 | 9 9 18 |
| | APRIL . | 10 20 9 | 10 13 28 | | APRIL . | { 7 11 19 | 7 17 31 |
| | MAY . | 10 8 53 | 10 2 17 | | ○ | { 22 5 41 | 22 6 47 |
| | JUNE . | { 8 21 37 | 8 16 36 | | MAY . | 7 0 3 | 7 0 30 |
| | ○ | { 23 15 59 | 23 15 47 | | JUNE . | 5 12 47 | 5 7 19 |
| | JULY . | 8 10 21 | 8 8 7 | | JULY . | 5 1 31 | 4 15 1 |
| | AUG. . | 6 23 5 | 7 0 9 | | AUG. . | 3 14 15 | 3 0 45 |
| | SEPT. . | 5 11 49 | 5 15 59 | | SEPT. . | 2 2 59 | 1 13 18 |
| | OCT. . | 5 0 33 | 5 7 1 | | ○ | { 1 15 43 | 1 4 56 |
| | NOV. . | 3 18 17 | 3 20 53 | | NOV. . | { 16 10 5 | 16 12 10 |
| | DEC. . | { 3 2 1 | 3 9 28 | | DEC. . | { 31 4 27 | 30 23 10 |
| | ○ | { 17 20 23 | 17 15 52 | | | 29 17 11 | 29 18 42 |
| | | | | | | 29 5 55 | 29 13 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 620. G. March. d. h. m. 27 22 56 | | d. h. m. | d. h. m. | B.C. 617. D.C. March. d. h. m. 27 16 23 | | d. h. m. | d. h. m. |
| | JAN. . | 27 18 40 | 28 7 8 | | JAN. . | 25 9 50 | 25 4 12 |
| | FEB. . | 26 7 24 | 26 21 27 | | ○ | { 9 4 12 | 9 15 46 |
| | MAR. . | 27 20 8 | 28 8 42 | | FEB. . | { 23 22 34 | 23 20 1 |
| | ○ | { 11 14 30 | 11 8 52 | | MAR. . | 24 11 18 | 24 12 19 |
| | APRIL | { 26 8 52 | 26 17 26 | | APRIL | 23 0 2 | 23 4 22 |
| | MAY . | 25 21 36 | 26 0 35 | | MAY . | 22 12 46 | 22 19 23 |
| | JUNE . | 24 10 20 | 24 7 15 | | JUNE . | 21 1 30 | 21 8 52 |
| | JULY . | 23 23 4 | 23 14 34 | | JULY . | 20 14 14 | 20 20 45 |
| | AUG. . | 22 11 48 | 21 23 31 | | ○ | { 4 8 36 | 3 18 59 |
| | SEPT. . | 21 0 32 | 20 10 58 | | AUG. . | { 19 2 58 | 19 7 28 |
| | ○ | { 5 18 54 | 6 1 12 | | SEPT. . | 17 15 42 | 17 17 40 |
| | OCT. . | { 20 18 16 | 20 1 18 | | OCT. . | 17 4 26 | 17 3 55 |
| | NOV. . | 19 2 0 | 18 18 20 | | NOV. . | 15 17 10 | 15 14 33 |
| | DEC. . | 18 14 44 | 18 13 10 | | DEC. . | 15 5 54 | 15 1 39 |
| 619. F. 28 4 45 | JAN. . | 17 3 28 | 17 8 19 | 616. B. 27 22 12 | JAN. . | { 13 18 33 | 13 13 19 |
| | FEB. . | 15 16 12 | 16 2 13 | | ○ | { 28 13 0 | 29 2 29 |
| | MAR. . | { 17 4 56 | 17 17 42 | | FEB. . | 12 7 22 | 12 1 41 |
| | ○ | { 31 23 18 | 31 17 44 | | MAR. . | 13 20 6 | 13 14 55 |
| | APRIL | 15 17 40 | 16 6 16 | | APRIL | 12 8 50 | 12 5 10 |
| | MAY . | 15 6 24 | 15 16 10 | | MAY . | 11 21 31 | 11 20 15 |
| | JUNE . | 13 19 8 | 14 0 14 | | JUNE . | 10 10 18 | 10 11 30 |
| | JULY . | 13 7 52 | 13 7 32 | | JULY . | { 9 23 2 | 10 2 43 |
| | AUG. . | 11 20 36 | 11 15 10 | | ○ | { 24 17 24 | 24 6 38 |
| | SEPT. . | { 10 9 20 | 10 0 0 | | AUG. . | 8 11 46 | 8 16 57 |
| | ○ | { 25 8 42 | 25 7 37 | | SEPT. . | 7 0 30 | 7 6 10 |
| | OCT. . | 9 22 4 | 9 10 44 | | OCT. . | 6 13 14 | 6 18 30 |
| | NOV. . | 8 10 43 | 7 23 44 | | NOV. . | 5 1 58 | 5 6 9 |
| | DEC. . | 7 23 32 | 7 15 0 | | DEC. . | 4 14 42 | 4 17 16 |
| 618. E. 28 10 34 | JAN. . | 6 12 17 | 6 8 7 | 615. A. 28 4 0 | JAN. . | { 3 3 27 | 3 3 57 |
| | FEB. . | 5 1 1 | 5 2 3 | | ○ | { 17 21 49 | 18 5 48 |
| | MAR. . | 6 13 45 | 6 19 40 | | FEB. . | 1 16 11 | 1 14 15 |
| | APRIL | 5 2 29 | 5 11 50 | | MAR. . | 3 4 55 | 3 0 29 |
| | MAY . | 4 15 13 | 5 1 46 | | APRIL | { 1 17 39 | 1 11 14 |
| | JUNE . | 3 3 57 | 3 13 23 | | MAY . | { 1 6 23 | 30 23 8 |
| | JULY . | 2 16 41 | 2 23 6 | | JUNE . | { 30 19 7 | 30 12 32 |
| | AUG. . | { 1 5 25 | 1 7 46 | | ○ | { 14 2 13 | 13 28 4 |
| | ○ | { 30 18 9 | 30 16 22 | | JULY . | { 28 20 35 | 28 19 31 |
| | SEPT. . | 29 6 53 | 29 1 40 | | AUG. . | 27 9 19 | 27 11 48 |
| | OCT. . | 28 19 37 | 28 12 7 | | SEPT. . | 25 22 3 | 26 3 34 |
| | NOV. . | 27 8 21 | 27 0 2 | | OCT. . | 25 10 47 | 25 18 19 |
| | DEC. . | 26 21 5 | 26 13 25 | | NOV. . | 23 23 31 | 24 7 44 |
| | | | | | DEC. . | 23 12 15 | 23 19 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 614. g. March. d. h. m. 28 9 49 | | d. h. m. | d. h. m. | B.C. 611. c. March. d. h. m. 28 8 16 | | d. h. m. | d. h. m. |
| | JAN. . | 22 1 0 | 22 6 16 | | JAN. . | 18 16 9 | 19 2 45 |
| | FEB. . | 20 13 44 | 20 15 37 | | FEB. . | 17 4 53 | 17 18 31 |
| | MAR. . | 22 2 28 | 22 0 16 | | MAR. . | 18 17 37 | 19 7 13 |
| | APRIL | 20 15 12 | 20 8 59 | | APRIL | 17 6 21 | 17 17 8 |
| | MAY . | 20 3 56 | 19 18 40 | | MAY . | 16 19 5 | 17 0 49 |
| | JUNE . | 18 16 40 | 18 6 12 | | JUNE . | 15 7 49 | 15 7 37 |
| | JULY . | 18 5 24 | 17 20 8 | | JULY . | 14 20 33 | 14 14 33 |
| | AUG. . | 16 18 8 | 16 12 7 | | AUG. . | 13 9 17 | 12 22 42 |
| | SEPT. . | 15 6 52 | 15 5 39 | | SEPT. . | 11 22 1 | 11 8 56 |
| | OCT. . | 14 19 36 | 14 23 34 | | OCT. . | 11 10 45 | 10 21 52 |
| | NOV. . | 13 8 20 | 13 16 39 | | NOV. . | 9 23 29 | 9 13 37 |
| | ○ | 28 2 42 | 27 17 15 | | DEC. . | 9 12 13 | 9 7 37 |
| | DEC. . | 12 21 4 | 13 8 0 | | | | |
| 613. F.E. 27 15 38 | JAN. . | 11 9 48 | 11 21 6 | 610. B. 28 9 5 | JAN. . | 8 0 58 | 8 2 42 |
| | FEB. . | 9 22 32 | 10 7 56 | | FEB. . | 6 13 42 | 6 21 15 |
| | MAR. . | 10 11 16 | 10 16 52 | | MAR. . | 8 2 26 | 8 13 56 |
| | APRIL | 9 0 0 | 9 0 33 | | ○ | 22 20 48 | 22 16 34 |
| | MAY . | 8 12 44 | 8 7 53 | | APRIL | 6 15 10 | 7 3 55 |
| | ○ | 23 7 6 | 23 15 47 | | MAY . | 6 3 54 | 6 15 5 |
| | JUNE . | 7 1 28 | 6 15 55 | | JUNE . | 4 16 38 | 5 0 0 |
| | JULY . | 6 14 12 | 6 1 44 | | JULY . | 4 5 22 | 4 7 41 |
| | AUG. . | 5 2 56 | 4 14 11 | | AUG. . | 2 18 6 | 2 15 10 |
| | SEPT. . | 3 15 40 | 3 5 32 | | SEPT. ○ | 1 6 50 | 31 23 28 |
| | OCT. . | 3 4 24 | 2 23 20 | | | 16 1 12 | 16 2 57 |
| | NOV. . | 1 17 8 | 1 18 26 | | | 30 19 34 | 30 9 20 |
| | ○ | 16 11 30 | 16 6 15 | | OCT. . | 30 8 18 | 29 21 13 |
| | DEC. . | 1 5 52 | 1 13 17 | | NOV. . | 28 21 2 | 28 11 21 |
| | | 30 18 36 | 31 6 24 | | DEC. . | 28 9 46 | 28 3 28 |
| 612. D. 27 21 27 | JAN. . | 29 7 21 | 29 20 52 | 609. A.G. 27 14 53 | JAN. . | 26 22 31 | 26 20 53 |
| | FEB. . | 27 20 5 | 28 8 26 | | FEB. . | 25 11 15 | 25 14 35 |
| | MAR. . | 29 8 49 | 29 17 30 | | ○ | 11 5 37 | 11 8 23 |
| | APRIL | 27 21 33 | 28 0 53 | | MAR. . | 25 23 59 | 26 7 25 |
| | ○ | 12 15 55 | 12 17 50 | | APRIL | 24 12 43 | 24 22 29 |
| | MAY . | 27 10 17 | 27 7 34 | | MAY . | 24 1 27 | 24 11 18 |
| | JUNE . | 25 23 1 | 25 14 41 | | JUNE . | 22 14 11 | 22 22 0 |
| | JULY . | 25 11 45 | 24 23 20 | | JULY . | 22 2 55 | 22 7 16 |
| | AUG. . | 24 0 29 | 23 10 27 | | AUG. . | 20 15 39 | 20 16 2 |
| | SEPT. . | 22 13 13 | 22 0 38 | | ○ | 4 10 1 | 4 2 47 |
| | OCT. . | 22 1 57 | 21 17 45 | | SEPT. . | 19 4 23 | 19 1 7 |
| | ○ | 5 20 19 | 5 22 1 | | OCT. . | 18 17 7 | 18 11 6 |
| | NOV. . | 20 14 41 | 20 12 52 | | NOV. . | 17 5 51 | 16 22 18 |
| | DEC. . | 20 3 25 | 20 8 26 | | DEC. . | 16 18 35 | 16 10 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|------------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| B.C. 608. F. March. d. h. m. 27 20 42 | | d. h. m. | d. h. m. | B.C. 605. C.B. March. d. h. m. 27 14 9 | | d. h. m. | d. h. m. |
| | JAN. . | 15 7 19 | 15 0 45 | | JAN. . | 12 22 29 | 13 5 30 |
| | FEB. . | { 13 20 3 | 13 15 47 | | FEB. . | 11 11 13 | 11 15 15 |
| | ○ | { 28 14 25 | { 1 0 47 | | MAR. . | 11 23 57 | 11 23 58 |
| | MAR. . | 15 8 47 | { 15 7 39 | | APRIL . | 10 12 41 | 10 8 20 |
| | APRIL . | 13 21 31 | 13 23 44 | | MAY . | 10 1 25 | 9 17 12 |
| | MAY . | 13 10 15 | 13 15 18 | | JUNE . | { 8 14 9 | 8 8 36 |
| | JUNE . | 11 22 59 | 12 5 39 | | ○ | { 23 8 31 | 23 15 11 |
| | JULY . | 11 11 43 | 11 18 30 | | JULY . | 8 2 53 | 7 16 13 |
| | AUG. . | { 10 0 27 | 10 6 0 | | AUG. . | 6 15 37 | 6 7 17 |
| | ○ | { 24 18 49 | 24 5 19 | | SEPT. . | 5 4 21 | 5 0 22 |
| | SEPT. . | 8 13 11 | 8 16 39 | | OCT. . | 4 17 5 | 4 18 28 |
| | OCT. . | 8 1 55 | 8 3 4 | | NOV. . | 3 5 49 | 3 12 21 |
| | NOV. . | 6 14 39 | 6 13 37 | | DEC. . | { 2 18 33 | 3 4 48 |
| | DEC. . | 6 3 23 | 6 0 30 | | ○ | { 17 12 55 | 17 4 37 |
| 607. E. 28 2 31 | JAN. . | 4 16 8 | 4 11 46 | 604. A. 27 19 58 | JAN. . | { 1 7 18 | 1 19 7 |
| | FEB. . | 3 4 52 | 2 23 30 | | FEB. . | { 30 20 2 | 31 7 0 |
| | MAR. . | 4 17 36 | 4 11 58 | | ... | ... | ... |
| | APRIL . | 3 6 20 | 3 1 26 | | MAR. . | { 1 8 46 | 1 16 40 |
| | MAY . | 2 19 4 | 2 15 55 | | { 30 21 30 | 31 0 43 | |
| | JUNE . | { 1 7 48 | 1 7 10 | | APRIL . | 29 10 14 | 29 7 58 |
| | { 30 20 32 | 30 22 34 | | | MAY . | 28 22 58 | 28 15 23 |
| | JULY . | 30 9 16 | 30 13 23 | | JUNE . | 27 11 42 | 27 0 8 |
| | AUG. . | 28 22 0 | 29 3 30 | | JULY . | 27 0 26 | 26 11 12 |
| | SEPT. . | 27 10 44 | 27 16 32 | | AUG. . | 25 13 10 | 25 1 9 |
| | OCT. . | 26 23 28 | 27 4 45 | | SEPT. . | 24 1 54 | 23 17 57 |
| | NOV. . | 25 12 12 | 25 16 15 | | OCT. . | 23 14 38 | 23 12 43 |
| | DEC. . | 25 0 56 | 25 3 7 | | NOV. . | 22 3 22 | 22 3 2 |
| | ○ | { 8 19 18 | 9 0 21 | | DEC. . | 21 16 6 | 22 2 13 |
| 606. D. 28 8 20 | JAN. . | { 23 13 41 | 23 13 26 | 603. G. 28 1 46 | JAN. . | 20 4 51 | 20 18 5 |
| | FEB. . | 22 2 25 | 21 23 25 | | FEB. . | 18 17 35 | 19 7 1 |
| | MAR. . | 23 15 9 | 23 9 33 | | MAR. . | 20 6 19 | 20 17 8 |
| | APRIL . | 22 3 53 | 21 20 32 | | APRIL . | 18 19 3 | 19 1 9 |
| | MAY . | 21 16 37 | 21 8 58 | | MAY . | 18 7 47 | 18 7 59 |
| | JUNE . | 20 5 21 | 19 23 9 | | JUNE . | 16 20 31 | 16 14 43 |
| | ○ | { 4 23 43 | 4 23 19 | | JULY . | 16 9 15 | 15 22 30 |
| | JULY . | { 19 18 5 | 19 14 47 | | AUG. . | 14 21 59 | 14 8 20 |
| | AUG. . | 18 6 49 | 18 7 11 | | SEPT. . | 13 10 43 | 12 21 2 |
| | SEPT. . | 16 19 33 | 16 23 36 | | OCT. . | { 12 23 27 | 12 12 49 |
| | OCT. . | 16 8 17 | 16 15 12 | | ○ | { 27 17 49 | 27 20 57 |
| | NOV. . | 14 21 1 | 15 5 31 | | NOV. . | 11 12 11 | 11 7 9 |
| | DEC. . | { 14 9 45 | 14 18 18 | | DEC. . | 11 0 55 | 11 2 40 |
| | ○ | { 29 4 7 | 28 23 54 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 602. F. March. <i>d. h. m.</i> 28 7 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 599. B. March. <i>d. h. m.</i> 28 1 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 9 13 39 | 9 21 46 | | JAN. . | 6 4 49 | 5 21 51 |
| | FEB. . | 8 2 23 | 8 14 52 | | FEB. . | { 4 17 33 | 4 12 4 |
| | MAR. . | 9 15 7 | 10 5 2 | | ○ | { 19 11 55 | 19 28 53 |
| | APRIL | { 8 3 51 | 8 16 10 | | MAR. . | 6 6 17 | 6 3 17 |
| | ○ | { 22 22 13 | 22 15 45 | | APRIL | 4 19 1 | 4 19 6 |
| | MAY . | 7 16 35 | 8 0 49 | | MAY . | 4 7 45 | 4 10 52 |
| | JUNE . | 6 5 19 | 6 7 59 | | JUNE . | 2 20 29 | 3 1 56 |
| | JULY . | 5 18 3 | 5 14 47 | | JULY . | { 2 9 13 | 2 15 41 |
| | AUG. . | 4 6 47 | 3 22 20 | | ○ | { 31 21 57 | { 1 4 4 |
| | SEPT. . | 2 19 31 | 2 7 32 | | AUG. . | { 15 16 19 | { 15 2 25 |
| | | 2 8 15 | 1 19 9 | | SEPT. . | { 30 10 41 | { 30 15 22 |
| | OCT. ○ | { 17 2 37 | 17 9 34 | | OCT. . | 28 23 25 | 29 2 6 |
| | | { 31 20 59 | 31 9 33 | | NOV. . | 28 12 9 | 28 12 43 |
| | NOV. . | 30 9 43 | 30 2 29 | | DEC. . | 27 0 53 | 26 23 30 |
| | DEC. . | 29 22 27 | 29 21 4 | | | 26 13 37 | 26 10 29 |
| 601. E.D. 27 13 24 | JAN. . | 28 11 11 | 28 15 54 | 598. A. 28 6 50 | JAN. . | 25 2 22 | 24 21 46 |
| | FEB. . | 26 23 56 | 27 9 33 | | ○ | { 8 20 44 | 9 10 24 |
| | MAR. . | 27 12 40 | 28 0 50 | | FEB. . | { 23 15 6 | 23 9 33 |
| | ○ | { 11 7 2 | 11 1 1 | | MAR. . | 25 3 50 | 24 22 11 |
| | APRIL | { 26 1 24 | 26 13 22 | | APRIL | 23 16 34 | 23 11 55 |
| | MAY . | 25 14 8 | 25 23 21 | | MAY . | 23 5 13 | 23 2 43 |
| | JUNE . | 24 2 52 | 24 7 33 | | JUNE . | 21 18 2 | 21 18 8 |
| | JULY . | 23 15 36 | 23 15 15 | | JULY . | 21 6 46 | 21 9 31 |
| | AUG. . | 22 4 20 | 21 23 13 | | ○ | { 5 1 8 | 4 14 20 |
| | SEPT. . | 20 17 4 | 20 8 22 | | AUG. . | { 19 19 30 | 20 0 17 |
| | ○ | { 5 11 26 | 5 15 24 | | SEPT. . | 18 8 14 | 18 14 8 |
| | OCT. . | { 20 5 48 | 19 19 19 | | OCT. . | 17 20 58 | 18 3 0 |
| | NOV. . | 18 18 32 | 18 8 19 | | NOV. . | 16 9 42 | 16 15 1 |
| | DEC. . | 18 7 16 | 17 23 21 | | DEC. . | 15 22 26 | 16 2 14 |
| 600. C. 27 19 13 | JAN. . | 16 20 0 | 16 15 59 | 597. G.F. 27 12 39 | JAN. . | { 14 11 10 | 14 12 42 |
| | FEB. . | 15 8 44 | 15 9 26 | | ○ | { 29 5 32 | 29 13 26 |
| | MAR. . | 16 21 28 | 17 2 38 | | FEB. . | 12 23 54 | 12 22 36 |
| | APRIL | 15 10 12 | 15 18 34 | | MAR. . | 13 12 38 | 13 8 19 |
| | MAY . | 14 22 56 | 15 8 33 | | APRIL | 12 1 22 | 11 18 30 |
| | JUNE . | 13 11 40 | 13 20 22 | | MAY . | 11 14 6 | 11 5 56 |
| | JULY . | 13 0 24 | 13 6 27 | | JUNE . | 10 2 50 | 9 19 8 |
| | AUG. . | 11 13 8 | 11 15 34 | | JULY . | { 9 15 34 | 9 10 5 |
| | SEPT. . | 10 1 52 | 10 0 38 | | ○ | { 24 9 56 | 24 6 46 |
| | OCT. . | 9 14 36 | 9 10 18 | | AUG. . | 8 4 18 | 8 2 22 |
| | NOV. . | 8 3 20 | 7 20 57 | | SEPT. . | 6 17 2 | 6 19 8 |
| | DEC. . | 7 16 4 | 7 8 48 | | OCT. . | 6 5 46 | 6 11 31 |
| | | | | | NOV. . | 4 18 30 | 5 2 46 |
| | | | | | DEC. . | 4 7 14 | 4 16 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 596. E. March. d. h. m. 27 18 28 | | d. h. m. | d. h. m. | B.C. 593. H.A. March. d. h. m. 27 11 55 | | d. h. m. | d. h. m. |
| | JAN. . | 2 19 59 | 8 4 28 | | JAN. . | 29 23 58 | 30 10 30 |
| | FEB. . | 1 8 48 | 1 14 48 | | FEB. . | 28 12 37 | 29 2 6 |
| | MAR. . | 2 21 27 | 2 28 47 | | MAR. . | 29 1 21 | 29 14 40 |
| | APRIL { | 1 10 11 | 1 8 0 | | APRIL | 27 14 5 | 28 0 25 |
| | | 80 22 55 | 80 16 17 | | MAY . | 27 2 49 | 27 8 18 |
| | MAY . | 80 11 39 | 80 1 40 | | JUNE . | 25 15 38 | 25 15 7 |
| | JUNE . | 29 0 23 | 28 18 8 | | JULY . | 25 4 17 | 24 22 17 |
| | JULY . | 28 18 7 | 28 2 55 | | AUG. . | 23 17 1 | 23 6 40 |
| | AUG. . | 27 1 51 | 26 19 12 | | SEPT. . | 22 5 45 | 21 17 8 |
| | SEPT. . | 25 14 35 | 25 18 8 | | OCT. . | 21 18 20 | 21 6 10 |
| | OCT. . | 25 8 19 | 25 7 80 | | NOV. . | 20 7 18 | 19 21 58 |
| | NOV. . | 23 16 8 | 24 0 58 | | DEC. . | 19 19 57 | 19 15 30 |
| | ○ | 8 10 25 | 8 1 58 | | | | |
| | DEC. . | 28 4 47 | 28 16 80 | 592. G. 27 17 48 | JAN. . | 18 8 41 | 18 10 28 |
| 595. D. 28 0 17 | JAN. . | 21 17 32 | 22 5 35 | | FEB. . | 16 21 20 | 17 4 38 |
| | FEB. . | 20 6 16 | 20 16 11 | | MAR. . | 18 10 10 | 18 21 5 |
| | MAR. . | 21 19 0 | 22 0 49 | | ○ | 2 4 32 | 2 4 1 |
| | APRIL | 20 7 44 | 20 8 10 | | APRIL { | 16 22 54 | 17 10 58 |
| | MAY . | 19 20 28 | 19 15 15 | | MAY . | 16 11 38 | 16 22 11 |
| | ○ | 8 14 50 | 8 22 29 | | JUNE . | 15 0 23 | 15 7 17 |
| | JUNE . | 18 9 12 | 17 28 10 | | JULY . | 14 18 6 | 14 15 15 |
| | JULY . | 17 21 56 | 17 8 56 | | AUG. . | 13 1 50 | 12 23 6 |
| | AUG. . | 16 10 40 | 15 21 28 | | SEPT. . | 11 14 31 | 11 7 46 |
| | SEPT. . | 14 28 24 | 14 18 0 | | ○ | 26 8 50 | 26 10 21 |
| | OCT. . | 14 12 8 | 14 7 8 | | OCT. . | 11 8 18 | 10 17 58 |
| | NOV. . | 18 0 52 | 18 2 28 | | NOV. . | 9 16 2 | 9 5 53 |
| | ○ | 27 19 14 | 27 15 11 | | DEC. . | 9 4 46 | 8 19 51 |
| | DEC. . | 12 18 36 | 12 21 24 | 591. F. 27 28 32 | JAN. . | 7 17 30 | 7 11 33 |
| 594. C. 29 6 6 | JAN. . | 11 2 20 | 11 14 38 | | FEB. . | 6 6 14 | 6 4 27 |
| | FEB. . | 9 15 4 | 10 4 55 | | MAR. . | 7 18 58 | 7 21 40 |
| | MAR. . | 11 8 48 | 11 16 18 | | ○ | 22 18 20 | 22 16 16 |
| | APRIL | 9 16 32 | 10 1 9 | | APRIL | 6 7 42 | 6 14 12 |
| | MAY . | 9 5 18 | 9 8 22 | | MAY . | 5 20 20 | 6 5 11 |
| | ○ | 28 28 38 | 24 0 16 | | JUNE . | 4 9 10 | 4 18 8 |
| | JUNE . | 7 18 0 | 7 15 0 | | JULY . | 3 21 54 | 4 5 10 |
| | JULY . | 7 6 44 | 6 22 9 | | AUG. . | 2 10 38 | 2 14 54 |
| | AUG. . | 5 19 28 | 5 6 54 | | ○ | 81 23 22 | 1 0 8 |
| | SEPT. . | 4 8 12 | 3 18 11 | | SEPT. . | 15 17 44 | 15 10 9 |
| | OCT. . | 8 20 56 | 8 8 31 | | ○ | 80 12 6 | 80 9 30 |
| | NOV. . | 2 9 40 | 2 1 48 | | OCT. . | 30 0 50 | 29 19 54 |
| | ○ | 17 4 2 | 17 6 56 | | NOV. . | 28 18 34 | 28 7 10 |
| | DEC. . | 1 22 24 | 1 20 49 | | DEC. . | 28 2 18 | 27 19 28 |
| | | 81 11 8 | 81 16 18 | | | | |

JANUARIAN CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (Full Mol.) | True New Moon. (Full Mol.) | Mean Vernal Equinox. | Month. | Mean New Moon. (Full Mol.) | True New Moon. (Full Mol.) |
|----------------------------|--------|----------------------------------|----------------------------------|----------------------------|--------|----------------------------------|----------------------------------|
| 586 d. h. m. | | d. h. m. | d. h. m. | 587. d. h. m. | | d. h. m. | d. h. m. |
| 29 5 21 | Jan. | 20 15 8 | 20 0 53 | 27 23 47 | Jan. | 8 11 50 | 8 7 49 |
| | Feb. | 25 0 47 | 24 23 19 | | Feb. | 21 18 57 | 21 23 35 |
| | Mar. | 11 22 0 | 12 0 46 | | Mar. | 28 7 41 | 28 7 53 |
| | April. | 26 16 31 | 26 14 37 | | April. | 21 20 25 | 21 15 48 |
| | May. | 24 17 50 | 24 21 47 | | May. | 21 0 0 | 21 0 21 |
| | June. | 23 6 43 | 23 12 19 | | June. | 19 21 53 | 19 10 32 |
| | July. | 22 19 37 | 23 1 37 | | July. | 4 16 15 | 4 22 29 |
| | Aug. | 21 0 11 | 21 13 40 | | Aug. | 19 10 37 | 18 23 7 |
| | Sept. | 5 2 33 | 4 12 54 | | Sept. | 17 23 21 | 17 14 20 |
| | Oct. | 19 20 55 | 20 0 54 | | Oct. | 16 12 5 | 16 7 44 |
| | Nov. | 19 0 39 | 19 11 45 | | Nov. | 16 0 49 | 16 2 16 |
| | Dec. | 17 22 23 | 17 22 31 | | Dec. | 14 13 33 | 14 20 30 |
| | | 17 11 7 | 17 0 26 | | | 14 2 17 | 14 13 13 |
| 589 d. h. m. | | | | 590. d. h. m. | | | |
| 27 11 19 | Jan. | 15 23 52 | 15 20 25 | 29 4 29 | Jan. | 12 15 1 | 12 8 34 |
| | Feb. | 14 12 30 | 14 7 39 | | Feb. | 11 3 45 | 11 15 18 |
| | Mar. | 15 1 39 | 14 19 29 | | Mar. | 12 16 29 | 12 0 42 |
| | April. | 13 14 4 | 13 0 53 | | April. | 11 5 13 | 11 8 25 |
| | May. | 13 2 48 | 12 22 39 | | May. | 10 17 57 | 10 15 23 |
| | June. | 11 15 32 | 11 13 37 | | June. | 9 0 41 | 8 22 41 |
| | July. | 11 4 19 | 11 5 12 | | July. | 21 1 3 | 21 8 19 |
| | Aug. | 9 17 0 | 9 27 33 | | Aug. | 8 19 25 | 8 7 23 |
| | Sept. | 8 5 44 | 8 11 11 | | Sept. | 7 8 9 | 6 18 20 |
| | Oct. | 7 18 29 | 8 0 51 | | Oct. | 5 20 53 | 5 8 35 |
| | Nov. | 6 7 12 | 6 13 39 | | Nov. | 5 0 37 | 5 1 36 |
| | Dec. | 5 19 50 | 6 1 12 | | Dec. | 3 23 21 | 3 20 35 |
| 593. d. h. m. | | | | 595. d. h. m. | | | |
| 27 16 59 | Jan. | 4 8 40 | 4 11 50 | 27 10 25 | Jan. | 1 23 50 | 2 10 19 |
| | Feb. | 19 8 2 | 19 8 8 | | Feb. | 31 12 34 | ... |
| | Mar. | 2 21 24 | 2 21 57 | | Mar. | ... | 1 2 8 |
| | April. | 4 10 8 | 4 7 20 | | April. | 1 1 18 | 1 14 54 |
| | May. | 2 22 52 | 2 17 2 | | May. | 30 14 2 | 31 0 49 |
| | June. | 1 0 20 | 31 15 59 | | June. | 29 2 46 | 29 8 40 |
| | July. | 30 13 4 | 30 5 42 | | July. | 29 15 30 | 29 15 25 |
| | Aug. | 15 7 20 | 15 6 50 | | Aug. | 27 4 14 | 26 22 11 |
| | Sept. | 30 1 48 | 30 21 30 | | Sept. | 26 16 58 | 26 8 5 |
| | Oct. | 29 14 32 | 29 14 30 | | Oct. | 25 5 42 | 21 16 4 |
| | Nov. | 27 8 16 | 27 7 19 | | Nov. | 23 18 20 | 23 4 53 |
| | Dec. | 26 16 0 | 26 23 34 | | Dec. | 23 7 10 | 22 20 49 |
| | | 25 4 44 | 25 14 9 | | | 7 1 32 | 7 5 47 |
| | | 24 17 29 | 25 3 8 | | | 21 19 54 | 21 15 7 |
| | | | | | | 21 8 38 | 21 10 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 584. D. March. d. h. m. 27 16 14 | | d. h. m. | d. h. m. | B.C. 581. A.G. March. d. h. m. 27 9 40 | | d. h. m. | d. h. m. |
| | JAN. . | 19 21 23 | 20 5 32 | | JAN. . | 17 12 33 | 17 6 13 |
| | FEB. . | 18 10 7 | 18 22 28 | | FEB. . | 16 1 17 | 15 19 51 |
| | MAR. . | 19 22 51 | 20 12 29 | | ○ | 1 19 39 | 2 7 56 |
| | APRIL | 18 11 35 | 18 23 31 | | MAR. . | 16 14 1 | 16 10 29 |
| | ○ | 3 5 57 | 2 22 36 | | APRIL | 15 2 45 | 15 1 49 |
| | MAY . | 18 0 19 | 18 8 9 | | MAY . | 14 15 29 | 14 17 22 |
| | JUNE . | 16 13 3 | 16 15 26 | | JUNE . | 13 4 13 | 13 8 29 |
| | JULY . | 16 1 47 | 15 22 27 | | JULY . | 12 16 57 | 12 22 35 |
| | AUG. . | 14 14 31 | 14 6 14 | | AUG. . | 11 5 41 | 11 11 30 |
| | SEPT. . | 13 3 15 | 12 15 42 | | ○ | 26 0 8 | 25 10 0 |
| | OCT. . | 12 15 59 | 12 3 30 | | SEPT. . | 9 18 25 | 9 23 24 |
| | ○ | 27 10 21 | 27 18 0 | | OCT. . | 9 7 9 | 9 10 38 |
| | NOV. . | 11 4 43 | 10 17 54 | | NOV. . | 7 19 53 | 7 21 38 |
| | DEC. . | 10 17 27 | 10 10 40 | | DEC. . | 7 8 37 | 7 8 29 |
| 583. C. 27 22 3 | JAN. . | 9 6 11 | 9 4 54 | 580. F. 27 15 29 | JAN. . | 5 21 21 | 5 19 16 |
| | FEB. . | 7 18 55 | 7 23 22 | | FEB. . | 4 10 5 | 4 6 6 |
| | MAR. . | 9 7 39 | 9 16 42 | | ○ | 19 4 27 | 19 18 7 |
| | APRIL | 7 20 23 | 8 7 50 | | MAR. . | 5 22 49 | 5 17 18 |
| | ○ | 22 14 45 | 22 8 22 | | APRIL | 4 11 33 | 4 5 20 |
| | MAY . | 7 9 7 | 7 20 22 | | MAY . | 4 0 17 | 3 18 36 |
| | JUNE . | 5 21 51 | 6 6 30 | | JUNE . | 2 13 1 | 2 9 10 |
| | JULY . | 5 10 35 | 5 15 4 | | JULY . | 2 1 45 | 2 0 38 |
| | AUG. . | 3 23 19 | 3 23 2 | | ○ | 31 14 29 | 31 16 22 |
| | SEPT. . | 2 12 3 | 2 7 24 | | ○ | 15 8 51 | 15 2 22 |
| | ○ | 2 0 47 | 1 16 52 | | AUG. . | 30 3 13 | 30 7 43 |
| | OCT. ○ | 16 19 9 | 16 23 17 | | SEPT. . | 23 15 57 | 23 22 11 |
| | | 31 13 31 | 31 3 59 | | OCT. . | 23 4 41 | 23 11 35 |
| | NOV. . | 30 2 15 | 29 16 56 | | NOV. . | 26 17 25 | 26 23 53 |
| | DEC. . | 29 14 59 | 29 7 38 | | DEC. . | 26 6 9 | 26 11 7 |
| 582. B. 23 3 52 | JAN. . | 28 3 44 | 27 23 43 | 579. E. 27 21 18 | JAN. . | 24 13 54 | 24 21 22 |
| | FEB. . | 26 16 28 | 26 16 43 | | ○ | 8 13 16 | 8 20 56 |
| | MAR. . | 28 5 12 | 28 9 31 | | FEB. . | 23 7 38 | 23 6 49 |
| | APRIL | 26 17 56 | 27 1 16 | | MAR. . | 24 20 22 | 24 16 1 |
| | MAY . | 26 6 40 | 26 15 16 | | APRIL | 23 9 6 | 23 1 44 |
| | JUNE . | 24 19 24 | 25 3 22 | | MAY . | 22 21 50 | 22 12 46 |
| | JULY . | 24 8 8 | 24 13 52 | | JUNE . | 21 10 34 | 21 1 46 |
| | AUG. . | 22 20 52 | 22 23 31 | | JULY . | 20 23 18 | 20 16 47 |
| | SEPT. . | 21 9 36 | 21 9 2 | | ○ | 4 17 40 | 4 14 36 |
| | OCT. . | 20 22 20 | 20 19 3 | | AUG. . | 19 12 2 | 19 9 22 |
| | NOV. . | 19 11 4 | 19 5 52 | | SEPT. . | 18 0 46 | 18 2 39 |
| | DEC. . | 18 23 43 | 18 17 35 | | OCT. . | 17 13 30 | 17 19 34 |
| | | | | | NOV. . | 16 2 14 | 16 11 17 |
| | | | | | DEC. . | 15 14 53 | 16 1 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 578. D. March. d. h. m. 28 3 7 | | d. h. m. | d. h. m. | B.C. 575. G. March. d. h. m. 27 20 33 | | d. h. m. | d. h. m. |
| | JAN. . | 14 3 42 | 14 13 9 | | JAN. . | 10 18 53 | 11 0 7 |
| | FEB. . | 12 16 26 | 12 23 12 | | FEB. . | 9 7 37 | 9 18 6 |
| | MAR. . | 14 5 10 | 14 7 48 | | MAR. . | 10 20 21 | 11 9 34 |
| | APRIL | 12 17 54 | 12 15 37 | | APRIL | 9 9 5 | 9 21 59 |
| | MAY . | 12 6 38 | 11 23 34 | | MAY . | 8 21 49 | 9 7 43 |
| | JUNE . | 10 19 22 | 10 8 42 | | JUNE . | 7 10 33 | 7 15 36 |
| | JULY . | 10 8 6 | 9 19 58 | | JULY . | 6 23 17 | 6 22 41 |
| | AUG. . | 8 20 50 | 8 9 54 | | AUG. . | 5 12 1 | 5 6 7 |
| | SEPT. . | 7 9 34 | 7 2 27 | | SEPT. . | 4 0 45 | 3 14 47 |
| | OCT. . | 6 22 18 | 6 20 45 | | OCT. . | 3 13 29 | 3 1 23 |
| | NOV. . | 5 11 2 | 5 15 30 | | NOV. . | 2 2 13 | 1 14 37 |
| | DEC. . | { 4 23 46 | 5 9 15 | | DEC. . | { 1 14 57 | 1 6 11 |
| | ○ | 19 18 8 | 19 10 31 | | | 31 3 41 | 30 23 39 |
| 577. C.B. 27 8 56 | JAN. . | 3 12 31 | 4 0 56 | 574. F. 28 2 22 | JAN. . | 29 16 25 | 29 17 58 |
| | FEB. . | 2 1 15 | 2 13 54 | | FEB. . | 28 5 9 | 28 11 52 |
| | MAR. . | 2 13 59 | 3 0 16 | | MAR. . | 29 17 53 | 30 4 4 |
| | APRIL | { 1 2 43 | 1 8 35 | | ○ | { 13 12 15 | 13 7 45 |
| | | 30 15 27 | 30 15 43 | | APRIL | { 28 6 37 | 28 17 53 |
| | MAY . | 30 4 11 | 29 22 37 | | MAY . | 27 19 21 | 28 5 13 |
| | ○ | { 13 22 33 | 14 5 9 | | JUNE . | 26 8 5 | 26 14 34 |
| | JUNE . | { 28 16 55 | 28 6 27 | | JULY . | 25 20 49 | 25 22 54 |
| | JULY . | 28 5 39 | 27 16 15 | | AUG. . | 24 9 33 | 24 7 9 |
| | AUG. . | 26 18 23 | 26 4 44 | | SEPT. . | 22 22 17 | 22 16 11 |
| | SEPT. . | 25 7 7 | 24 20 36 | | ○ | { 7 16 39 | 7 18 13 |
| | OCT. . | 24 19 51 | 24 14 51 | | OCT. . | { 22 11 1 | 22 2 35 |
| | NOV. . | 23 8 35 | 23 10 21 | | NOV. . | 20 23 45 | 20 14 36 |
| | ○ | { 8 2 57 | 8 0 7 | | DEC. . | 20 12 29 | 20 4 19 |
| | DEC. . | { 22 21 19 | 23 5 26 | | | | |
| 576. A. 27 14 45 | JAN. . | 21 10 4 | 21 22 34 | 573. E.D. 27 8 11 | JAN. . | 19 1 14 | 18 19 36 |
| | FEB. . | 19 22 43 | 20 12 49 | | FEB. . | 17 18 53 | 17 11 56 |
| | MAR. . | 21 11 32 | 22 0 1 | | MAR. . | 18 2 42 | 18 4 39 |
| | APRIL | 20 0 16 | 20 8 43 | | ○ | { 1 21 4 | 2 0 6 |
| | MAY . | 19 13 0 | 19 15 49 | | APRIL | { 16 15 26 | 16 20 53 |
| | ○ | { 3 7 22 | 3 6 42 | | MAY . | 16 4 10 | 16 11 49 |
| | JUNE . | { 18 1 44 | 17 22 23 | | JUNE . | 14 16 54 | 15 0 53 |
| | JULY . | 17 14 23 | 17 5 44 | | JULY . | 14 5 33 | 14 12 24 |
| | AUG. . | 16 3 12 | 15 14 39 | | AUG. . | 12 18 22 | 12 22 37 |
| | SEPT. . | 14 15 56 | 14 2 7 | | SEPT. . | { 11 7 6 | 11 8 23 |
| | OCT. . | 14 4 40 | 13 16 33 | | ○ | { 26 1 23 | 25 17 41 |
| | NOV. . | { 12 17 24 | 12 9 46 | | OCT. . | 10 19 50 | 10 18 13 |
| | ○ | { 27 11 46 | 27 15 52 | | NOV. . | 9 8 34 | 9 4 50 |
| | DEC. . | 12 6 8 | 12 4 43 | | DEC. . | 8 21 18 | 8 16 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 572. c. March. d. h. m. 27 14 0 | | d. h. m. | d. h. m. | B.C. 569. G.F. March. d. h. m. 27 7 26 | | d. h. m. | d. h. m. |
| | JAN. . | 7 10 2 | 7 4 3 | | JAN. . | { 5 1 12 | 5 11 45 |
| | FEB. . | 5 22 46 | 5 16 54 | | ○ | { 19 19 34 | 19 15 42 |
| | MAR. . | { 7 11 30 | 7 6 43 | | FEB. . | 3 13 56 | 3 22 36 |
| | ○ | { 22 5 52 | 22 16 34 | | MAR. . | 4 2 40 | 4 7 43 |
| | APRIL | 6 0 14 | 5 21 29 | | APRIL | 2 15 24 | 2 15 38 |
| | MAY . | 5 12 58 | 5 12 51 | | MAY . | { 2 4 8 | 1 23 13 |
| | JUNE . | 4 1 42 | 4 4 14 | | ○ | { 31 16 52 | 31 7 30 |
| | JULY . | 3 14 26 | 3 19 1 | | JUNE . | 30 5 36 | 29 17 32 |
| | AUG. . | { 2 3 10 | 2 8 47 | | ○ | { 14 23 58 | 15 5 53 |
| | ○ | { 31 15 54 | 31 21 26 | | JULY . | { 29 18 20 | 29 6 8 |
| | SEPT. . | { 15 10 16 | 14 20 39 | | AUG. . | 28 7 4 | 27 21 31 |
| | OCT. . | { 30 4 38 | 30 9 15 | | SEPT. . | 26 19 48 | 26 15 13 |
| | NOV. . | 29 17 22 | 29 20 32 | | OCT. . | 26 8 32 | 26 10 5 |
| | DEC. . | 28 6 6 | 28 7 32 | | NOV. . | 24 21 16 | 25 4 40 |
| | | 27 18 50 | 27 18 19 | | DEC. . | 24 10 0 | 24 21 34 |
| 571. B. 27 19 49 | JAN. . | 26 7 35 | 26 4 56 | 568. E. 27 13 15 | ○ | { 8 4 23 | 7 21 31 |
| | FEB. . | 24 20 19 | 24 15 37 | | JAN. . | { 22 22 45 | 23 11 54 |
| | MAR. . | 26 9 3 | 26 2 52 | | FEB. . | 21 11 29 | 21 23 27 |
| | APRIL | 24 21 47 | 24 15 15 | | MAR. . | 23 0 13 | 23 8 34 |
| | MAY . | 24 10 31 | 24 5 1 | | APRIL | 21 12 57 | 21 16 3 |
| | JUNE . | 22 23 15 | 22 20 4 | | MAY . | 21 1 41 | 20 22 50 |
| | JULY . | 22 11 59 | 22 11 54 | | JUNE . | { 19 14 25 | 19 6 2 |
| | AUG. . | 21 0 43 | 21 3 45 | | ○ | { 4 8 47 | 4 15 12 |
| | SEPT. . | 19 13 27 | 19 18 59 | | JULY . | 19 3 9 | 18 14 45 |
| | OCT. . | 19 2 11 | 19 9 13 | | AUG. . | 17 15 53 | 17 1 57 |
| | NOV. . | 17 14 55 | 17 22 16 | | SEPT. . | 16 4 37 | 15 16 12 |
| | DEC. . | 17 3 39 | 17 10 5 | | OCT. . | 15 17 21 | 15 9 23 |
| 570. A. 23 1 38 | JAN. . | { 15 16 24 | 15 20 44 | 567. D. 27 19 4 | JAN. . | 12 7 34 | 12 18 19 |
| | ○ | { 30 10 46 | 30 15 38 | | FEB. . | 10 20 18 | 11 10 1 |
| | FEB. . | 14 5 8 | 14 6 20 | | MAR. . | 12 9 2 | 12 22 38 |
| | MAR. . | 15 17 52 | 15 15 21 | | APRIL | 10 21 46 | 11 8 24 |
| | APRIL | 14 6 36 | 14 0 27 | | MAY . | 10 10 30 | 10 16 7 |
| | MAY . | 13 19 20 | 13 10 31 | | JUNE . | 8 23 14 | 8 22 53 |
| | JUNE . | 12 8 4 | 11 22 23 | | JULY . | 8 11 58 | 8 5 44 |
| | JULY . | { 11 20 48 | 11 12 23 | | AUG. . | 7 0 42 | 6 13 47 |
| | ○ | { 26 15 10 | 26 14 39 | | SEPT. . | 5 13 26 | 5 0 0 |
| | AUG. . | 10 9 32 | 10 4 23 | | OCT. . | 5 2 10 | 4 13 1 |
| | SEPT. . | 8 22 16 | 8 21 39 | | NOV. . | { 3 14 54 | 3 4 55 |
| | OCT. . | 8 11 0 | 8 15 8 | | ○ | { 18 9 16 | 18 14 39 |
| | NOV. . | 6 23 44 | 7 7 46 | | DEC. . | 3 3 38 | 2 23 10 |
| | DEC. . | 6 12 23 | 6 22 47 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 566. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 563. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | { 1 16 22 | 1 18 26 | March. | JAN. . | 27 20 16 | 27 14 29 |
| <i>d. h. m.</i> | | { 31 5 6 | 31 13 10 | <i>d. h. m.</i> | FEB. . | 26 9 0 | 26 3 31 |
| 28 0 53 | FEB. . | ... | ... | ○ | ○ | { 13 3 22 | 13 15 46 |
| | MAR. . | { 1 17 50 | 2 5 52 | 27 18 19 | MAR. . | { 27 21 44 | 27 17 31 |
| | | { 31 6 34 | 31 19 45 | | APRIL | 26 10 28 | 26 8 25 |
| | APRIL | 29 19 18 | 30 6 45 | | MAY . | 25 23 12 | 25 23 47 |
| | ○ | { 14 13 40 | 14 5 25 | | JUNE . | 24 11 56 | 24 15 2 |
| | MAY . | { 29 8 2 | 29 15 27 | | JULY . | 24 0 40 | 24 5 33 |
| | JUNE . | 27 20 46 | 27 22 54 | | AUG. . | 22 13 24 | 22 19 2 |
| | JULY . | 27 9 30 | 27 6 9 | | ○ | { 6 7 46 | 5 18 0 |
| | AUG. . | 25 22 14 | 25 14 16 | | SEPT. . | { 21 2 8 | 21 7 32 |
| | SEPT. . | 24 10 58 | 24 0 1 | | OCT. . | 20 14 52 | 20 19 17 |
| | OCT. . | 23 23 42 | 23 11 58 | | NOV. . | 19 3 36 | 19 6 34 |
| | ○ | { 7 18 4 | 8 2 28 | | DEC. . | 18 16 20 | 18 17 26 |
| | NOV. . | { 22 12 26 | 22 2 18 | 562. E. | JAN. . | 17 5 5 | 17 3 58 |
| | DEC. . | 22 1 10 | 21 18 47 | | FEB. . | 15 17 49 | 15 14 20 |
| 565. B.A. | JAN. . | 20 13 55 | 20 12 40 | | ○ | { 2 12 11 | 3 1 42 |
| 27 6 42 | FEB. . | 19 2 39 | 19 6 42 | 28 0 8 | MAR. . | { 17 6 33 | 17 0 57 |
| | MAR. . | 19 15 23 | 19 23 43 | | APRIL | 15 19 17 | 15 12 26 |
| | APRIL | 18 4 7 | 18 14 44 | | MAY . | 15 8 1 | 15 1 17 |
| | ○ | { 2 22 29 | 2 15 41 | | JUNE . | 13 20 45 | 13 15 40 |
| | MAY . | { 17 16 51 | 18 3 19 | | JULY . | 13 9 29 | 13 7 15 |
| | JUNE . | 16 5 35 | 16 13 40 | | AUG. . | { 11 22 13 | 11 23 32 |
| | JULY . | 15 18 19 | 15 22 33 | | ○ | { 26 16 35 | 26 10 26 |
| | AUG. . | 14 7 3 | 14 6 56 | | SEPT. . | 10 10 57 | 10 15 16 |
| | SEPT. . | 12 19 47 | 12 15 43 | | OCT. . | 9 23 41 | 10 6 20 |
| | OCT. . | { 12 8 31 | 12 1 32 | | NOV. . | 8 12 25 | 8 20 14 |
| | ○ | { 27 2 53 | 27 7 16 | | DEC. . | 8 1 9 | 8 8 46 |
| | NOV. . | 10 21 15 | 10 12 46 | 561. D.C | JAN. . | 6 13 54 | 6 20 0 |
| | DEC. . | 10 9 59 | 10 1 35 | | FEB. . | { 5 2 38 | 5 5 53 |
| 564. G. | JAN. . | 8 22 44 | 8 15 55 | 27 5 57 | ○ | { 19 21 0 | 20 4 19 |
| 27 12 31 | FEB. . | 7 11 28 | 7 7 30 | | MAR. . | 5 15 22 | 5 14 55 |
| | MAR. . | 9 0 12 | 8 23 51 | | APRIL | 4 4 6 | 3 23 38 |
| | APRIL | 7 12 56 | 7 16 15 | | MAY . | 3 16 50 | 3 8 54 |
| | MAY . | 7 1 40 | 7 7 50 | | JUNE . | 2 5 34 | 1 19 37 |
| | JUNE . | 5 14 24 | 5 21 58 | | JULY . | { 1 18 18 | 1 8 29 |
| | JULY . | 5 3 8 | 5 10 24 | | | { 31 7 2 | 30 23 36 |
| | AUG. . | 3 15 52 | 3 21 23 | | ○ | { 15 1 24 | 14 22 33 |
| | SEPT. . | 2 4 36 | 2 7 34 | | AUG. . | { 29 19 46 | 29 16 30 |
| | ○ | { 1 17 20 | 1 17 35 | | SEPT. . | 28 8 30 | 28 10 15 |
| | NOV. . | { 31 6 4 | 31 3 55 | | OCT. . | 27 21 14 | 28 3 41 |
| | DEC. . | 29 18 48 | 29 14 50 | | NOV. . | 26 9 58 | 26 19 47 |
| | | 29 7 32 | 29 2 19 | | DEC. . | 25 22 42 | 26 9 51 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1019. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1022. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>D.</i> | JAN. . | 9 0 48 | 9 1 8 | <i>G.</i> | JAN. . | 5 15 58 | 5 11 1 |
| <i>March.</i> | FEB. . | 7 13 32 | 7 20 9 | <i>March.</i> | FEB. . | 4 4 42 | 3 23 0 |
| <i>d. h. m.</i> | MAR. . | { 9 2 16 | 9 13 30 | <i>d. h. m.</i> | MAR. . | 5 17 26 | 5 11 46 |
| 15 17 54 | ○ | { 23 20 38 | 23 17 0 | 15 11 21 | APRIL | 4 6 10 | 4 1 31 |
| | APRIL | 7 15 0 | 8 4 11 | | MAY . | 3 13 54 | 3 16 13 |
| | MAY . | 7 3 44 | 7 15 54 | | JUNE . | 2 7 38 | 2 7 31 |
| | JUNE . | 5 16 28 | 6 1 8 | | ○ | { 1 20 22 | 1 22 51 |
| | JULY . | 5 5 12 | 5 8 48 | | JULY ○ | { 16 14 44 | 16 7 19 |
| | AUG. . | 3 17 56 | 3 16 0 | | | { 31 9 6 | 31 13 36 |
| | SEPT. . | { 2 6 40 | 1 23 48 | | AUG. . | 29 21 50 | 30 3 22 |
| | ○ | { 17 1 2 | 17 2 11 | | SEPT. . | 28 10 34 | 28 16 5 |
| | OCT. . | { 1 19 24 | 1 9 2 | | OCT. . | 27 23 18 | 28 4 1 |
| | | { 31 8 8 | 30 20 21 | | NOV. . | 26 12 2 | 26 15 24 |
| | NOV. . | 29 20 52 | 29 10 5 | | DEC. . | 26 0 46 | 26 2 23 |
| | DEC. . | 29 9 36 | 29 2 3 | | ○ | { 9 19 8 | 9 22 48 |
| 1020. | JAN. . | 27 22 20 | 27 19 38 | 1023. | JAN. . | { 24 13 30 | 24 12 59 |
| <i>C.B.</i> | FEB. . | 26 11 4 | 26 13 45 | <i>F.</i> | FEB. . | 23 2 14 | 22 23 22 |
| | ○ | { 12 5 26 | 12 8 46 | 15 17 10 | MAR. . | 24 14 58 | 24 9 52 |
| 14 28 43 | MAR. . | { 26 23 48 | 27 7 11 | | APRIL | 23 3 42 | 22 21 4 |
| | APRIL | 25 12 32 | 25 22 48 | | MAY . | 22 16 26 | 22 9 31 |
| | MAY . | 25 1 16 | 25 12 0 | | JUNE . | 21 5 10 | 20 23 30 |
| | JUNE . | 23 14 0 | 23 22 53 | | ○ | { 5 23 32 | 6 0 23 |
| | JULY . | 23 2 44 | 23 8 5 | | JULY . | { 20 17 54 | 20 14 50 |
| | AUG. . | 21 15 28 | 21 16 30 | | AUG. . | 19 6 38 | 19 6 53 |
| | ○ | { 5 9 50 | 5 2 8 | | SEPT. . | 17 19 22 | 17 22 55 |
| | SEPT. . | { 20 4 12 | 20 1 5 | | OCT. . | 17 8 6 | 17 14 14 |
| | OCT. . | 19 16 56 | 19 10 35 | | NOV. . | 15 20 50 | 16 4 27 |
| | NOV. . | 18 5 40 | 17 21 25 | | DEC. . | { 15 9 34 | 15 17 21 |
| | DEC. . | 17 18 24 | 17 9 48 | | ○ | { 30 3 56 | 29 22 21 |
| 1021. | JAN. . | 16 7 9 | 15 23 46 | 1024. | JAN. . | 13 22 19 | 14 4 55 |
| <i>A.</i> | FEB. . | 14 19 53 | 14 15 3 | <i>E.D.</i> | FEB. . | 12 11 3 | 12 15 10 |
| | ○ | { 1 14 15 | 2 0 54 | 14 22 59 | MAR. . | 12 23 47 | 13 0 22 |
| 15 5 32 | MAR. . | { 16 8 87 | 16 7 17 | | APRIL | 11 12 31 | 11 9 4 |
| | APRIL | 14 21 21 | 14 23 45 | | MAY . | 11 1 15 | 10 18 8 |
| | MAY . | 14 10 5 | 14 15 37 | | JUNE . | { 9 13 59 | 9 4 24 |
| | JUNE . | 12 22 49 | 13 6 11 | | ○ | { 24 8 21 | 24 16 11 |
| | JULY . | 12 11 33 | 12 19 3 | | JULY . | 9 2 43 | 8 16 33 |
| | AUG. . | { 11 0 17 | 11 6 24 | | AUG. . | 7 15 27 | 7 7 10 |
| | ○ | { 25 18 39 | 25 5 12 | | SEPT. . | 6 4 11 | 5 23 42 |
| | SEPT. . | 9 18 1 | 9 16 42 | | OCT. . | 5 16 55 | 5 17 20 |
| | OCT. . | 9 1 45 | 9 2 42 | | NOV. . | 4 5 39 | 4 10 57 |
| | NOV. . | 7 14 29 | 7 12 55 | | DEC. . | { 3 13 23 | 4 3 29 |
| | DEC. . | 7 3 13 | 6 23 40 | | ○ | { 18 12 45 | 18 3 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|--------|------------------------------------|------------------------------------|---|--------|------------------------------------|------------------------------------|
| A.D. 1025. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1028. g.f. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 4 47 | JAN. . | { 2 7 8 31 19 52 | 2 18 8 ... | 14 22 14 | JAN. . | 29 11 1 | 29 14 37 |
| | FEB. . | ... | 1 6 35 | | FEB. . | 27 23 45 | 28 8 50 |
| | MAR.. | { 2 8 36 31 21 20 | 2 16 53 { 1 1 27 30 9 1 | | MAR.. | 28 12 30 | 29 0 51 |
| | APRIL | 30 10 4 | 30 9 1 | | ○ | { 12 6 52 27 1 14 | 12 1 42 27 13 59 |
| | MAY . | 29 22 48 | 29 16 33 | | MAY . | 26 13 58 | 27 0 23 |
| | JUNE . | 28 11 32 | 28 1 3 | | JUNE . | 25 2 42 | 25 8 45 |
| | JULY . | 28 0 16 | 27 11 37 | | JULY . | 24 15 26 | 24 16 11 |
| | AUG. . | 26 13 0 | 26 0 53 | | AUG. . | 23 4 10 | 22 23 48 |
| | SEPT.. | 25 1 44 | 24 17 0 | | SEPT.. | 21 16 54 | 21 8 18 |
| | OCT. . | 24 14 28 | 24 11 15 | | ○ | { 6 11 16 21 5 38 | 6 14 21 20 18 39 |
| | NOV. . | 23 3 12 | 23 6 20 | | NOV. . | 19 18 22 | 19 7 12 |
| | DEC. . | 22 15 56 | 23 0 44 | | DEC. . | 19 7 6 | 18 22 1 |
| 1026. R. | JAN. . | 21 4 40 | 21 17 7 | 1029. E. | JAN. . | 17 19 50 | 17 14 43 |
| 15 10 36 | FEB. . | 19 17 24 | 20 6 44 | 15 4 3 | FEB. . | 16 8 34 | 16 8 31 |
| | MAR.. | 21 6 8 | 21 17 33 | | MAR.. | 17 21 18 | 18 2 13 |
| | APRIL | 19 18 52 | 20 2 6 | | APRIL | 16 10 2 | 16 18 42 |
| | ○ | { 4 13 14 19 7 36 | 4 13 32 19 9 13 | | MAY . | 15 22 46 | 16 9 6 |
| | MAY . | 17 20 20 | 17 15 56 | | JUNE . | 14 11 30 | 14 21 11 |
| | JUNE . | 17 9 4 | 16 23 24 | | JULY . | 14 0 14 | 14 7 17 |
| | AUG. . | 15 21 48 | 15 8 40 | | AUG. . | 12 12 58 | 12 16 10 |
| | SEPT.. | 14 10 32 | 13 20 37 | | SEPT.. | 11 1 42 | 11 0 47 |
| | OCT. . | { 13 23 16 23 17 33 | 13 11 41 28 20 17 | | OCT. . | 10 14 26 | 10 9 58 |
| | ○ | 23 17 33 | 28 20 17 | | NOV. . | 9 3 10 | 8 20 12 |
| | NOV. . | 12 12 0 | 12 5 29 | | DEC. . | 8 15 54 | 8 7 49 |
| | DEC. . | 12 0 44 | 12 0 54 | | | | |
| 1027. A. | JAN. . | 10 13 29 | 10 20 18 | 1030. D. | JAN. . | 7 4 39 | 6 20 58 |
| 15 16 25 | FEB. . | 9 2 13 | 9 14 0 | 15 9 52 | FEB. . | { 5 17 23 20 11 45 | 5 11 18 20 23 47 |
| | MAR.. | 10 14 57 | 11 4 55 | | ○ | 7 6 7 | 7 2 50 |
| | APRIL | { 9 3 41 23 22 3 | 9 16 44 23 16 10 | | MAR.. | 5 18 51 | 5 19 1 |
| | ○ | 23 22 3 | 23 16 10 | | APRIL | 5 7 35 | 5 11 7 |
| | MAY . | 8 16 25 | 9 1 53 | | MAY . | 3 20 19 | 4 2 22 |
| | JUNE . | 7 5 9 | 7 9 16 | | JUNE . | 3 9 3 | 3 16 13 |
| | JULY . | 6 17 53 | 6 15 59 | | JULY . | { 1 21 47 16 16 9 | 2 4 20 16 2 84 |
| | AUG. . | 5 6 37 | 4 23 6 | | AUG.○ | 31 10 31 | 31 15 29 |
| | SEPT.. | 3 19 21 | 3 7 42 | | SEPT.. | 29 23 15 | 30 1 50 |
| | OCT. . | { 3 8 5 18 2 27 | 2 18 37 18 8 45 | | OCT. . | 29 11 59 | 29 12 7 |
| | ○ | 18 2 27 | 18 8 45 | | NOV. . | 28 0 43 | 27 22 42 |
| | NOV. . | 1 20 49 | 1 8 23 | | DEC. . | 27 13 27 | 27 9 48 |
| | DEC. . | { 1 9 33 30 22 17 | 1 0 55 30 19 26 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1031. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1034. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 15 40 | JAN. . | 26 2 11 | 25 21 12 | March. <i>d. h. m.</i> 15 9 7 | JAN. . | 22 17 21 | 23 4 55 |
| | ○ | { 9 20 33 | 10 9 41 | | FEB. . | 21 6 5 | 21 16 9 |
| | FEB. . | { 24 14 55 | 24 9 18 | | MAR. . | 22 18 49 | 23 1 22 |
| | MAR. . | 26 3 39 | 25 22 14 | | APRIL | 21 7 33 | 21 9 10 |
| | APRIL | 24 16 23 | 24 12 11 | | MAY . | 20 20 17 | 20 16 26 |
| | MAY . | 24 5 7 | 24 3 3 | | ○ | { 4 14 39 | 4 23 12 |
| | JUNE . | 22 17 51 | 22 18 25 | | JUNE . | { 19 9 1 | 19 0 13 |
| | JULY . | 22 6 35 | 22 9 39 | | JULY . | 18 21 45 | 18 9 35 |
| | ○ | { 6 0 57 | 5 15 0 | | AUG. . | 17 10 29 | 16 21 28 |
| | AUG. . | { 20 19 19 | 21 0 11 | | SEPT. . | 15 23 13 | 15 12 16 |
| | SEPT. . | 19 8 3 | 19 13 43 | | OCT. . | 15 11 57 | 15 5 41 |
| | OCT. . | 18 20 47 | 19 2 18 | | NOV. . | { 14 0 41 | 14 0 42 |
| | NOV. . | 17 9 31 | 17 14 9 | | ○ | { 23 19 3 | 23 14 20 |
| | DEC. . | 16 22 15 | 17 1 24 | | DEC. . | 13 13 25 | 13 19 46 |
| 1032. B.A. | JAN. . | 15 11 0 | 15 12 10 | 1035. E. | JAN. . | 12 2 10 | 12 13 21 |
| 14 21 29 | FEB. . | 13 23 44 | 13 22 27 | 15 14 56 | FEB. . | 10 14 54 | 11 4 23 |
| | MAR. . | 14 12 28 | 14 8 34 | | MAR. . | 12 3 38 | 12 16 29 |
| | APRIL | 13 1 12 | 12 19 3 | | APRIL | 10 16 22 | 11 1 57 |
| | MAY . | 12 13 56 | 12 6 35 | | MAY . | { 10 5 6 | 10 9 34 |
| | JUNE . | 11 2 40 | 10 19 38 | | ○ | { 24 23 28 | 25 0 36 |
| | JULY . | { 10 15 24 | 10 10 18 | | JUNE . | 8 17 50 | 8 16 17 |
| | ○ | { 25 9 46 | 25 7 43 | | JULY . | 8 6 34 | 7 23 14 |
| | AUG. . | 9 4 8 | 9 2 11 | | AUG. . | 6 19 18 | 6 7 28 |
| | SEPT. . | 7 16 52 | 7 18 33 | | SEPT. . | 5 8 2 | 4 18 5 |
| | OCT. . | 7 5 36 | 7 10 36 | | OCT. . | 4 20 46 | 4 7 39 |
| | NOV. . | 5 18 20 | 6 1 41 | | NOV. . | { 3 9 30 | 3 0 15 |
| | DEC. . | 5 7 4 | 5 15 26 | | ○ | { 18 3 52 | 18 6 9 |
| 1033. G. | JAN. . | 3 19 49 | 4 3 44 | 1036. D.C. | JAN. . | { 1 10 58 | 1 14 41 |
| 15 8 18 | FEB. . | 2 8 33 | 2 14 30 | 14 20 45 | FEB. . | { 30 23 42 | 31 9 22 |
| | MAR. . | 3 21 17 | 4 0 2 | | MAR. . | 29 12 27 | ... |
| | APRIL | 2 10 1 | 2 8 42 | | ○ | { ... | 1 1 42 |
| | MAY . | { 1 22 45 | 1 17 15 | | APRIL | { 30 1 11 | 30 15 0 |
| | ○ | { 31 11 29 | 31 2 35 | | MAY . | 23 13 55 | 29 1 20 |
| | JUNE . | { 15 5 51 | 15 15 14 | | JUNE . | 23 2 39 | 23 9 26 |
| | JULY . | { 80 0 13 | 29 13 39 | | JULY . | 26 15 23 | 26 16 22 |
| | AUG. . | 29 12 57 | 29 3 1 | | AUG. . | 26 4 7 | 25 23 13 |
| | SEPT. . | 28 1 41 | 27 13 43 | | SEPT. . | 24 16 51 | 24 7 4 |
| | OCT. . | 26 14 25 | 26 12 7 | | OCT. . | 23 5 35 | 22 16 51 |
| | NOV. . | 26 3 9 | 26 6 8 | | NOV. . | 22 13 19 | 22 5 14 |
| | ○ | { 24 15 53 | 24 23 32 | | DEC. . | 21 7 3 | 20 20 23 |
| | DEC. . | { 9 10 15 | 9 0 47 | | | 20 19 47 | 20 14 3 |
| | | { 24 4 37 | 24 15 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1037. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1040. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 19 8 31 | 19 8 58 | March. | JAN. . | 16 28 41 | 16 19 45 |
| <i>d. h. m.</i> | FEB. . | 17 21 15 | 18 3 42 | <i>d. h. m.</i> | FEB. . | 15 12 25 | 15 7 18 |
| 15 2 33 | MAR. . | 19 9 59 | 19 20 49 | 14 20 0 | MAR. . | 16 1 9 | 15 19 29 |
| | ○ | 3 4 21 | 3 0 49 | | APRIL | 14 13 53 | 14 8 38 |
| | APRIL | 17 22 43 | 18 11 20 | | MAY . | 14 2 37 | 13 22 51 |
| | MAY . | 17 11 27 | 17 23 2 | | JUNE . | 12 15 21 | 12 13 56 |
| | JUNE . | 16 0 11 | 16 8 22 | | JULY . | 12 4 5 | 12 5 23 |
| | JULY . | 15 12 55 | 15 16 15 | | AUG. . | 10 16 49 | 10 20 30 |
| | AUG. . | 14 1 39 | 13 23 45 | | SEPT. . | 9 5 33 | 9 10 50 |
| | SEPT. . | 12 14 23 | 12 7 53 | | OCT. . | 8 18 17 | 9 0 11 |
| | ○ | 27 8 45 | 27 9 32 | | NOV. . | 7 7 1 | 7 12 38 |
| | OCT. . | 12 3 7 | 11 17 26 | | DEC. . | 6 19 45 | 7 0 19 |
| | NOV. . | 10 15 51 | 10 4 56 | | | | |
| | DEC. . | 10 4 35 | 9 18 36 | 1041. | JAN. . | 5 8 30 | 5 11 19 |
| | | | | D. | ○ | 20 2 52 | 20 6 39 |
| 1038. | JAN. . | 8 17 20 | 8 10 17 | | FEB. . | 3 21 14 | 3 21 40 |
| A. | FEB. . | 7 6 4 | 7 3 26 | 15 1 49 | MAR. . | 5 9 58 | 5 7 36 |
| 15 8 22 | MAR. . | 8 18 48 | 8 21 4 | | APRIL | 3 22 42 | 3 17 34 |
| | ○ | 23 13 10 | 23 16 53 | | MAY . | 3 11 26 | 3 4 14 |
| | APRIL | 7 7 32 | 7 14 7 | | JUNE . | 2 0 10 | 1 16 16 |
| | MAY . | 6 20 16 | 7 5 34 | | ○ | 1 12 54 | 1 6 3 |
| | JUNE . | 5 9 0 | 5 18 51 | | JULY ○ | 16 7 16 | 16 7 59 |
| | JULY . | 4 21 44 | 5 5 59 | | | 31 1 38 | 30 21 28 |
| | AUG. . | 3 10 28 | 3 15 33 | | AUG. . | 29 14 22 | 29 13 51 |
| | SEPT. . | 1 23 12 | 2 0 25 | | SEPT. . | 28 3 6 | 28 6 25 |
| | ○ | 16 17 34 | 16 9 19 | | OCT. . | 27 15 50 | 27 22 21 |
| | OCT. . | 1 11 56 | 1 9 23 | | NOV. . | 26 4 34 | 26 13 2 |
| | | 31 0 40 | 30 19 18 | | DEC. . | 25 17 18 | 26 2 10 |
| | NOV. . | 29 13 24 | 29 6 17 | | | | |
| | DEC. . | 29 2 8 | 28 18 31 | 1042. | ○ | 9 11 41 | 9 6 27 |
| 1039. | JAN. . | 27 14 53 | 27 8 4 | C. | JAN. . | 24 6 3 | 24 13 41 |
| a. | FEB. . | 26 3 37 | 25 22 48 | 15 7 38 | FEB. . | 22 18 47 | 22 23 39 |
| 15 14 11 | ○ | 12 21 59 | 13 9 4 | | MAR. . | 24 7 31 | 24 8 23 |
| | MAR. . | 27 16 21 | 27 14 26 | | APRIL | 22 20 15 | 22 16 44 |
| | APRIL | 26 5 5 | 26 6 28 | | MAY . | 22 8 59 | 22 1 22 |
| | MAY . | 25 17 49 | 25 22 9 | | JUNE . | 20 21 43 | 20 11 20 |
| | JUNE . | 24 6 33 | 24 12 48 | | ○ | 5 16 5 | 5 23 17 |
| | JULY . | 23 19 17 | 24 2 2 | | JULY . | 20 10 27 | 19 23 28 |
| | AUG. . | 22 8 1 | 22 13 52 | | AUG. . | 18 23 11 | 18 14 4 |
| | ○ | 6 2 23 | 5 12 37 | | SEPT. . | 17 11 55 | 17 6 52 |
| | SEPT. . | 20 20 45 | 21 0 45 | | OCT. . | 17 0 39 | 17 0 55 |
| | OCT. . | 20 9 29 | 20 11 15 | | NOV. . | 15 13 23 | 15 19 0 |
| | NOV. . | 18 22 13 | 18 21 48 | | DEC. . | 15 2 7 | 15 11 53 |
| | DEC. . | 18 10 57 | 18 8 38 | | ○ | 29 20 29 | 29 12 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1043. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1046. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 18 14 51 | 14 2 41 | March. | JAN. . | 10 6 1 | 10 3 26 |
| <i>d. h. m.</i> | FEB. . | 12 3 35 | 12 15 1 | <i>d. h. m.</i> | FEB. . | 8 18 45 | 8 22 16 |
| 15 13 36 | MAR. . | 13 16 19 | 14 1 4 | 15 6 53 | MAR. . | 10 7 29 | 10 16 11 |
| | APRIL | 12 5 3 | 12 9 19 | | APRIL | { 8 20 13 | 9 7 59 |
| | MAY . | 11 17 47 | 11 16 35 | | ○ | { 23 14 35 | 23 9 12 |
| | JUNE . | 10 6 31 | 9 23 51 | | MAY . | 8 8 57 | 8 21 3 |
| | JULY . | 9 19 15 | 9 8 14 | | JUNE . | 6 21 41 | 7 7 31 |
| | AUG. . | 8 7 59 | 7 18 46 | | JULY . | 6 10 25 | 6 16 5 |
| | SEPT. . | 6 20 43 | 6 8 9 | | AUG. . | 4 23 9 | 4 23 49 |
| | OCT. . | 6 9 27 | 6 0 28 | | SEPT. . | 3 11 53 | 3 7 42 |
| | NOV. . | 4 22 11 | 4 18 58 | | OCT. . | { 3 0 37 | 2 16 38 |
| | DEC. . | 4 10 55 | 4 14 19 | | ○ | { 17 18 59 | 17 22 3 |
| | | | | | NOV. . | 1 13 21 | { 1 3 14 |
| 1044. | JAN. . | 2 23 40 | 3 8 55 | | DEC. . | { 1 2 5 | { 30 15 48 |
| A.G. | FEB. . | 1 12 24 | 2 1 19 | | | { 30 14 49 | 30 6 25 |
| 14 19 15 | MAR. . | { 2 1 8 | 2 14 48 | 1047. | JAN. . | 29 3 34 | 28 22 43 |
| | | { 31 13 52 | { 1 1 26 | D. | FEB. . | 27 16 18 | 27 15 59 |
| | APRIL | 30 2 36 | { 30 9 45 | 15 12 42 | MAR. . | 29 5 2 | 29 9 15 |
| | ○ | { 14 20 58 | 14 20 6 | | APRIL | 27 17 46 | 28 1 23 |
| | MAY . | { 29 15 20 | 29 16 43 | | MAY . | 27 6 30 | 27 15 52 |
| | JUNE . | 28 4 4 | 27 23 24 | | JUNE . | 25 19 14 | 26 4 8 |
| | JULY . | 27 16 48 | 27 6 52 | | JULY . | 25 7 58 | 25 14 34 |
| | AUG. . | 26 5 32 | 25 16 15 | | AUG. . | 23 20 42 | 23 23 54 |
| | SEPT. . | 24 18 16 | 24 4 22 | | SEPT. . | 22 9 26 | 22 9 0 |
| | OCT. . | 24 7 0 | 23 19 35 | | OCT. . | 21 22 10 | 21 18 35 |
| | ○ | { 8 1 22 | 8 5 0 | | NOV. . | 20 10 54 | 20 5 4 |
| | NOV. . | { 22 19 44 | 22 18 27 | | DEC. . | 19 23 38 | 19 16 39 |
| | DEC. . | 22 8 28 | 22 8 52 | | | | |
| 1045. | JAN. . | 20 21 12 | 21 4 11 | 1048. | JAN. . | 18 12 22 | 18 5 23 |
| F. | FEB. . | 19 9 56 | 19 21 45 | C.B. | FEB. . | 17 1 6 | 16 19 17 |
| 15 1 4 | MAR. . | 20 22 40 | 21 12 31 | | ○ | { 2 19 28 | 3 7 58 |
| | APRIL | 19 11 24 | 20 0 12 | 14 18 31 | MAR. . | { 17 13 50 | 17 10 12 |
| | ○ | { 4 5 46 | 3 23 8 | | APRIL | 16 2 34 | 16 1 50 |
| | MAY . | { 19 0 8 | 19 9 16 | | MAY . | 15 15 18 | 15 17 39 |
| | JUNE . | 17 12 52 | 17 16 40 | | JUNE . | 14 4 2 | 14 8 53 |
| | JULY . | 17 1 36 | 16 23 28 | | JULY . | 13 16 46 | 13 22 58 |
| | AUG. . | 15 14 20 | 15 6 49 | | AUG. . | { 12 5 30 | 12 11 43 |
| | SEPT. . | 14 8 4 | 13 15 40 | | ○ | { 26 23 52 | 26 10 0 |
| | OCT. . | { 13 15 48 | 13 2 48 | | SEPT. . | 10 18 14 | 10 23 15 |
| | ○ | { 28 10 10 | 28 17 1 | | OCT. . | 10 6 58 | 10 10 11 |
| | NOV. . | 12 4 32 | 11 16 39 | | NOV. . | 8 19 42 | 8 20 54 |
| | DEC. . | 11 17 16 | 11 9 6 | | DEC. . | 8 8 26 | 8 7 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1049. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1052. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 6 21 11 | 6 18 36 | E.D. | JAN. . | 4 12 21 | 4 23 49 |
| March. | FEB. . | 5 9 55 | 5 5 44 | March. | FEB. . | 3 1 5 | 3 13 24 |
| <i>d. h. m.</i> | ○ | 20 4 17 | 20 17 35 | <i>d. h. m.</i> | MAR. . | 3 13 49 | 4 0 25 |
| 15 0 19 | MAR. . | 6 22 39 | 6 17 16 | 14 17 46 | APRIL . | 2 2 33 | 2 9 20 |
| | APRIL . | 5 11 23 | 5 5 35 | | MAY . | 1 15 17 | 1 16 50 |
| | MAY . | 5 0 7 | 4 19 1 | | ○ | 31 4 1 | 30 23 58 |
| | JUNE . | 3 12 51 | 3 9 34 | | JUNE . | 14 22 23 | 15 5 41 |
| | JULY . | 3 1 35 | 3 0 54 | | JULY . | 29 16 45 | 29 7 28 |
| | ○ | 1 14 19 | 1 16 24 | | AUG. . | 29 5 29 | 28 16 48 |
| | AUG. ○ | 16 8 41 | 15 22 42 | | SEPT. . | 27 18 13 | 27 4 45 |
| | ○ | 31 3 3 | 31 7 25 | | OCT. . | 26 6 57 | 25 19 48 |
| | SEPT. . | 29 15 47 | 29 21 34 | | NOV. . | 25 19 41 | 25 13 28 |
| | OCT. . | 29 4 31 | 29 10 44 | | ○ | 24 8 25 | 24 8 36 |
| | NOV. . | 27 17 15 | 27 22 58 | | DEC. . | 9 2 47 | 8 23 16 |
| | DEC. . | 27 5 59 | 27 10 21 | | ○ | 23 21 9 | 21 3 52 |
| 1050. | JAN. . | 25 18 44 | 25 20 57 | 1053. | JAN. . | 22 9 53 | 22 21 29 |
| G. | FEB. . | 24 7 28 | 24 6 52 | C. | FEB. . | 20 22 37 | 21 12 26 |
| 15 6 8 | MAR. . | 25 20 12 | 25 16 29 | 14 23 35 | MAR. . | 22 11 22 | 23 0 23 |
| | APRIL . | 24 8 56 | 24 2 26 | | APRIL . | 21 0 6 | 21 9 39 |
| | MAY . | 23 21 40 | 23 13 29 | | MAY . | 20 12 50 | 20 17 5 |
| | JUNE . | 22 10 24 | 22 2 15 | | ○ | 4 7 12 | 4 7 4 |
| | JULY . | 21 23 8 | 21 16 53 | | JUNE . | 19 1 34 | 18 23 43 |
| | ○ | 5 17 30 | 5 15 24 | | JULY . | 18 14 18 | 18 6 41 |
| | AUG. . | 20 11 52 | 20 9 0 | | AUG. . | 17 3 2 | 16 15 4 |
| | SEPT. . | 19 0 36 | 19 1 50 | | SEPT. . | 15 15 46 | 15 1 49 |
| | OCT. . | 18 13 20 | 18 13 27 | | OCT. . | 15 4 30 | 14 15 33 |
| | NOV. . | 17 2 4 | 17 10 4 | | NOV. . | 13 17 14 | 13 8 14 |
| | DEC. . | 16 14 48 | 17 0 9 | | ○ | 23 11 36 | 23 15 1 |
| 1051. | JAN. . | 15 3 32 | 15 12 30 | 1054. | JAN. . | 11 18 42 | 11 22 36 |
| F. | FEB. . | 13 16 16 | 13 23 6 | B. | FEB. . | 10 7 26 | 10 17 3 |
| 15 11 57 | MAR. . | 15 5 0 | 15 8 15 | 15 5 24 | MAR. . | 11 20 10 | 12 9 18 |
| | APRIL . | 13 17 44 | 13 16 29 | | APRIL . | 10 8 54 | 10 22 27 |
| | MAY . | 13 6 28 | 13 0 33 | | MAY . | 9 21 38 | 10 8 41 |
| | JUNE . | 11 19 12 | 11 9 38 | | JUNE . | 8 10 22 | 8 16 48 |
| | ○ | 26 13 34 | 26 22 19 | | JULY . | 7 23 6 | 7 23 50 |
| | JULY . | 11 7 56 | 10 20 32 | | AUG. . | 6 11 50 | 6 6 53 |
| | AUG. . | 9 20 40 | 9 9 53 | | SEPT. . | 5 0 34 | 4 15 0 |
| | SEPT. . | 8 9 24 | 8 1 46 | | OCT. . | 4 13 18 | 4 1 2 |
| | OCT. . | 7 22 8 | 7 19 31 | | NOV. . | 3 2 2 | 2 13 33 |
| | NOV. . | 6 10 52 | 6 13 58 | | DEC. . | 2 14 46 | 2 4 44 |
| | DEC. . | 5 23 36 | 6 7 47 | | ○ | ... | 31 22 8 |
| | ○ | 20 17 58 | 20 9 29 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1055. A. March. d. h. m. 15 11 12 | | d. h. m. | d. h. m. | A.D. 1058. D. March. d. h. m. 15 4 39 | | d. h. m. | d. h. m. |
| | JAN. . | { 1 3 30 | ... 30 16 43 | | JAN. . | 27 7 25 | 27 4 28 |
| | FEB. . | ... 31 3 58 | ... 31 3 58 | | FEB. . | 25 20 9 | 25 15 31 |
| | MAR. . | { 1 4 59 | 1 11 7 | | MAR. . | 27 8 53 | 27 3 7 |
| | ○ | { 30 17 43 | 31 3 58 | | APRIL | 25 21 37 | 25 15 40 |
| | APRIL | { 14 12 5 | 14 8 32 | | MAY . | 25 10 21 | 25 5 28 |
| | MAY . | { 29 6 27 | 29 18 22 | | JUNE . | 23 23 5 | 23 20 23 |
| | JUNE . | 28 19 11 | 29 6 6 | | JULY . | 23 11 49 | 23 11 58 |
| | JULY . | 27 7 55 | 27 15 35 | | AUG. . | 22 0 33 | 22 3 30 |
| | AUG. . | 26 20 39 | 26 23 46 | | SEPT. . | 20 13 17 | 20 18 25 |
| | SEPT. . | 25 9 23 | 25 7 38 | | OCT. . | 20 2 1 | 20 8 23 |
| | ○ | 23 22 7 | 23 16 9 | | NOV. . | 18 14 45 | 18 21 19 |
| | OCT. . | { 8 16 29 | 8 17 2 | | DEC. . | 18 3 29 | 18 9 14 |
| | NOV. . | { 23 10 51 | 23 2 0 | | | | |
| | DEC. . | 21 23 35 | 21 13 36 | | | | |
| | | 21 12 19 | 21 3 9 | | | | |
| 1056. G.F. 14 17 1 | JAN. . | 20 1 4 | 19 18 29 | 1059. C. 15 10 28 | JAN. . | { 16 16 13 | 16 20 10 |
| | FEB. . | 18 13 48 | 18 11 6 | | ○ | { 31 10 35 | 31 14 22 |
| | MAR. . | 19 2 32 | 19 4 15 | | FEB. . | 15 4 57 | 15 6 15 |
| | ○ | { 2 20 54 | 3 0 53 | | MAR. . | 16 17 41 | 16 15 42 |
| | APRIL | { 17 15 16 | 17 20 56 | | APRIL | 15 6 25 | 15 1 9 |
| | MAY . | 17 4 0 | 17 12 15 | | MAY . | 14 19 9 | 14 11 18 |
| | JUNE . | 15 16 44 | 16 1 39 | | JUNE . | 13 7 53 | 12 23 0 |
| | JULY . | 15 5 28 | 15 13 6 | | JULY . | { 12 20 37 | 12 12 38 |
| | AUG. . | 18 18 12 | 18 23 7 | | ○ | { 27 14 59 | 27 15 33 |
| | SEPT. . | { 12 6 56 | 12 8 28 | | AUG. . | 11 9 21 | 11 4 10 |
| | ○ | { 27 1 18 | 26 16 41 | | SEPT. . | 9 22 5 | 9 20 56 |
| | OCT. . | 11 19 40 | 11 17 58 | | OCT. . | 9 10 49 | 9 14 2 |
| | NOV. . | 10 8 24 | 10 4 7 | | NOV. . | 7 23 33 | 8 6 30 |
| | DEC. . | 9 21 8 | 9 15 10 | | DEC. . | 7 12 17 | 7 21 37 |
| 1057. E. 14 22 50 | JAN. . | 8 9 52 | 8 3 13 | 1060. B.A. 14 16 17 | JAN. . | { 6 1 2 | 6 10 56 |
| | FEB. . | 6 22 36 | 6 16 17 | | ○ | { 20 19 24 | 20 14 29 |
| | MAR. . | { 8 11 20 | 8 6 25 | | FEB. . | 4 13 46 | 4 22 20 |
| | ○ | { 23 5 42 | 23 17 2 | | MAR. . | 5 2 30 | 5 7 59 |
| | APRIL | 7 0 4 | 6 21 29 | | APRIL | 3 15 14 | 3 16 24 |
| | MAY . | 6 12 48 | 6 18 4 | | MAY . | 3 8 58 | 3 0 17 |
| | JUNE . | 5 1 32 | 5 4 37 | | JUNE . | 1 16 42 | { 1 8 33 |
| | JULY . | 4 14 16 | 4 19 25 | | | { 1 5 26 | { 30 18 18 |
| | AUG. . | 3 8 0 | 3 9 2 | | JULY ○ | { 15 23 48 | 16 6 41 |
| | SEPT. . | { 1 15 44 | 1 21 25 | | | { 30 13 10 | 30 6 21 |
| | ○ | { 16 10 6 | 15 20 12 | | AUG. . | 29 6 54 | 28 21 4 |
| | OCT. . | { 1 4 28 | 1 8 54 | | SEPT. . | 27 19 38 | 27 14 9 |
| | | { 30 17 12 | 30 19 53 | | OCT. . | 27 8 22 | 27 8 37 |
| | NOV. . | 29 5 56 | 29 6 44 | | NOV. . | 25 21 6 | 26 3 6 |
| | DEC. . | 28 18 40 | 28 17 34 | | DEC. . | 25 9 50 | 25 20 16 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|-------------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1061. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1064. D.C. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 14 22 5 | ○ JAN. . | { 9 4 13 | 8 20 34 | 14 15 31 | JAN. . | 21 13 45 | 21 11 19 |
| | FEB. . | 23 22 35 | 24 11 9 | | FEB. . | 20 2 29 | 20 5 47 |
| | MAR. . | 22 11 19 | 22 23 21 | | MAR. . | 20 15 13 | 20 23 22 |
| | APRIL | 24 0 3 | 24 9 8 | | APRIL | 19 3 57 | 19 14 59 |
| | MAY . | 22 12 47 | 22 17 5 | | ○ | { 3 22 19 | 3 16 38 |
| | JUNE . | 22 1 31 | 22 0 4 | | MAY . | { 18 16 41 | 19 4 3 |
| | JULY . | 20 14 15 | 20 7 11 | | JUNE . | 17 5 25 | 17 14 38 |
| | AUG. . | 20 2 59 | 19 15 30 | | JULY . | 16 18 9 | 16 23 28 |
| | SEPT. . | 18 15 43 | 18 2 6 | | AUG. . | 15 6 53 | 15 7 34 |
| | OCT. . | 17 4 27 | 16 15 36 | | SEPT. . | 13 19 37 | 13 15 51 |
| | NOV. . | 16 17 11 | 16 8 5 | | OCT. . | { 13 8 21 | 13 1 8 |
| | DEC. . | 15 5 55 | 15 2 49 | | ○ | { 23 2 43 | 23 5 52 |
| | | 14 18 39 | 14 22 21 | | NOV. . | 11 21 5 | 11 11 55 |
| | | | | | DEC. . | 11 9 49 | 11 0 28 |
| 1062. F. | JAN. . | 13 7 23 | 13 16 59 | 1065. B. | JAN. . | 9 22 33 | 9 14 48 |
| 15 3 54 | FEB. . | 11 20 7 | 12 9 21 | 14 21 20 | FEB. . | 8 11 17 | 8 6 36 |
| | MAR. . | 13 8 51 | 13 22 42 | | MAR. . | 10 0 1 | 9 23 19 |
| | APRIL | 11 21 35 | 12 9 7 | | APRIL | 8 12 45 | 8 16 8 |
| | MAY . | { 11 10 19 | 11 17 16 | | MAY . | 8 1 29 | 8 8 8 |
| | ○ | { 26 4 41 | 26 2 36 | | JUNE . | 6 14 13 | 6 22 32 |
| | JUNE . | 9 23 8 | 10 0 9 | | JULY . | 6 2 57 | 6 11 2 |
| | JULY . | 9 11 47 | 9 6 50 | | AUG. . | 4 15 41 | 4 21 54 |
| | AUG. . | 8 0 31 | 7 14 26 | | SEPT. . | 3 4 25 | 3 7 45 |
| | SEPT. . | 6 13 15 | 5 23 59 | | OCT. . | 2 17 9 | 2 17 21 |
| | OCT. . | 6 1 59 | 5 12 15 | | NOV. . | { 1 5 53 | 1 3 17 |
| | NOV. . | { 4 14 43 | 4 3 34 | | DEC. . | { 30 18 37 | 30 13 57 |
| | ○ | { 19 9 5 | 19 13 48 | | | 30 7 21 | 30 1 28 |
| | DEC. . | 4 3 27 | 3 21 29 | | | | |
| 1063. E. | JAN. . | 2 16 12 | 2 16 50 | 1066. A. | JAN. . | 23 20 6 | 23 13 51 |
| 15 9 43 | FEB. . | 1 4 56 | 1 11 53 | 15 3 9 | FEB. . | 27 8 50 | 27 8 10 |
| | MAR. . | 2 17 40 | 3 5 20 | | ○ | { 14 3 12 | 14 16 1 |
| | APRIL | { 1 6 24 | 1 19 57 | | MAR. . | { 28 21 34 | 28 17 28 |
| | ○ | { 30 19 8 | 1 7 33 | | APRIL | 27 10 18 | 27 8 38 |
| | MAY . | { 15 13 30 | 15 6 4 | | MAY . | 26 23 2 | 27 0 8 |
| | JUNE . | { 30 7 52 | 30 16 36 | | JUNE . | 25 11 46 | 25 15 23 |
| | JULY . | 28 20 36 | 29 0 5 | | JULY . | 25 0 30 | 25 5 43 |
| | AUG. . | 28 9 20 | 28 7 6 | | AUG. . | 23 13 14 | 23 19 3 |
| | SEPT. . | 26 22 4 | 26 14 42 | | ○ | { 7 7 36 | 6 17 37 |
| | OCT. . | 25 10 43 | 24 23 50 | | SEPT. . | { 22 1 58 | 22 7 14 |
| | NOV. . | 24 23 32 | 24 11 10 | | OCT. . | 21 14 42 | 21 18 40 |
| | ○ | { 8 17 54 | 9 1 22 | | NOV. . | 20 3 26 | 20 5 44 |
| | DEC. . | { 23 12 16 | 23 1 2 | | DEC. . | 19 16 10 | 19 16 39 |
| | | 23 1 0 | 22 17 20 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1067. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1070. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| u. | JAN. . | 18 4 55 | 18 8 26 | c. | JAN. . | 14 20 5 | 15 8 18 |
| March. | FEB. . | 16 17 39 | 16 11 10 | March. | FEB. . | 13 8 49 | 18 21 44 |
| <i>d. h. m.</i> | ○ | { 3 12 1 | 4 1 20 | <i>d. h. m.</i> | MAR. . | 14 21 33 | 15 8 34 |
| 15 8 15 | MAR. . | 18 6 23 | 18 1 8 | 15 2 21 | APRIL | 13 10 17 | 18 17 10 |
| | APRIL | 16 19 7 | 16 12 52 | | MAY . | 12 23 1 | 13 0 24 |
| | MAY . | 16 7 51 | 16 1 48 | | JUNE . | { 11 11 45 | 11 7 15 |
| | JUNE . | 14 20 35 | 14 16 3 | | ○ | { 26 6 7 | 26 12 18 |
| | JULY . | 14 9 19 | 11 7 21 | | JULY . | 11 0 29 | 10 14 49 |
| | AUG. . | 12 22 3 | 12 23 11 | | AUG. . | 9 13 13 | 9 0 9 |
| | ○ | { 27 16 25 | 27 6 31 | | SEPT. . | 8 1 57 | 7 12 11 |
| | SEPT. . | 11 10 47 | 11 14 45 | | OCT. . | 7 14 41 | 7 8 21 |
| | OCT. . | 10 23 31 | 11 5 32 | | NOV. . | 6 3 25 | 5 21 11 |
| | NOV. . | 9 12 15 | 9 19 15 | | DEC. . | { 5 16 9 | 5 16 35 |
| | DEC. . | 9 0 59 | 9 7 49 | | ○ | { 20 10 31 | 20 8 13 |
| 1068. | JAN. . | 7 13 43 | 7 19 16 | 1071. | JAN. . | 4 4 53 | 4 11 54 |
| p.e. | FEB. . | { 6 2 27 | 6 5 39 | h. | FEB. . | 2 17 37 | 3 5 30 |
| 14 14 47 | ○ | { 20 20 49 | 21 3 25 | 15 8 13 | MAR. . | 4 6 21 | 4 20 20 |
| | MAR. . | 6 15 11 | 6 15 10 | | APRIL | 2 19 5 | 3 8 6 |
| | APRIL | 5 3 55 | 5 0 16 | | MAY . | { 2 7 49 | 2 17 11 |
| | MAY . | 4 16 39 | 4 9 43 | | ○ | { 31 20 33 | 1 0 31 |
| | JUNE . | 3 5 23 | 2 20 22 | | ○ | { 15 14 55 | 15 13 29 |
| | JULY . | 2 18 7 | { 2 8 55 | | JUNE . | { 30 9 17 | 30 7 10 |
| | ○ | { 1 6 51 | 31 23 32 | | JULY . | 29 22 1 | 29 14 14 |
| | AUG. . | { 16 1 13 | 15 23 10 | | AUG. . | 28 10 45 | 27 22 47 |
| | ○ | { 30 19 35 | 30 15 56 | | SEPT. . | 26 23 20 | 26 9 43 |
| | SEPT. . | 29 8 19 | 29 9 14 | | OCT. . | 26 12 13 | 25 23 35 |
| | OCT. . | 28 21 3 | 29 2 23 | | NOV. . | 25 0 57 | 24 16 13 |
| | NOV. . | 27 9 47 | 27 18 29 | | ○ | { 9 19 19 | 9 23 56 |
| | DEC. . | 26 23 31 | 27 8 50 | | DEC. . | { 24 13 41 | 24 11 4 |
| 1069. | JAN. . | 25 11 16 | 25 21 12 | 1072. | JAN. . | 23 2 26 | 23 6 25 |
| h. | FEB. . | 24 0 0 | 24 7 34 | a.g. | FEB. . | 21 15 10 | 22 0 44 |
| 14 20 30 | MAR. . | 25 12 44 | 25 16 21 | 14 14 2 | MAR. . | 22 8 54 | 22 16 43 |
| | APRIL | 24 1 23 | 24 0 11 | | APRIL | 20 16 38 | 21 5 45 |
| | MAY . | 23 14 12 | 23 7 53 | | MAY . | 20 5 22 | 20 15 53 |
| | JUNE . | 22 2 56 | 21 16 44 | | JUNE . | 18 18 6 | 19 0 9 |
| | JULY . | 21 15 40 | 21 8 29 | | JULY . | 18 6 50 | 18 7 21 |
| | AUG. . | 20 4 24 | 19 16 54 | | AUG. . | 16 19 34 | 16 14 41 |
| | SEPT. . | 18 17 8 | 18 9 0 | | SEPT. . | 15 8 18 | 14 23 6 |
| | OCT. . | 18 5 52 | 18 8 6 | | OCT. . | 14 21 2 | 14 9 22 |
| | NOV. . | 16 18 36 | 16 21 56 | | NOV. . | 13 9 46 | 12 22 1 |
| | DEC. . | { 16 7 20 | 16 16 8 | | DEC. . | 12 22 30 | 12 18 5 |
| | ○ | { 31 1 42 | 30 18 12 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1073. F. March. <i>d. h. m.</i> 14 19 51 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1076. C.B. March. <i>d. h. m.</i> 14 13 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 11 14 | 11 6 12 | | JAN. . | 9 2 24 | 9 2 30 |
| | FEB. . | 9 23 58 | 10 0 23 | | FEB. . | 7 15 8 | 7 13 4 |
| | MAR. . | 11 12 42 | 11 13 22 | | MAR. . | 8 3 52 | 7 23 36 |
| | APRIL | { 10 1 26 | 10 10 58 | | APRIL | 6 16 36 | 6 10 36 |
| | ○ | { 24 19 48 | 24 16 8 | | MAY . | 6 5 20 | 5 22 37 |
| | MAY . | 9 14 10 | 10 1 17 | | JUNE . | 4 18 4 | 4 12 2 |
| | JUNE . | 8 2 54 | 8 13 6 | | JULY . | 4 6 48 | 4 2 51 |
| | JULY . | 7 15 38 | 7 22 50 | | AUG. . | 2 19 32 | 2 18 36 |
| | AUG. . | 6 4 22 | 6 7 21 | | SEPT. . | { 1 8 16 | 1 10 36 |
| | SEPT. . | 4 17 6 | 4 15 37 | | | { 30 21 0 | { 1 2 7 |
| | OCT. . | { 4 5 50 | 4 0 31 | | OCT. . | 30 9 44 | { 30 16 40 |
| | ○ | { 19 0 12 | 19 0 39 | | NOV. . | 28 22 28 | 29 6 2 |
| | NOV. . | 2 18 34 | 2 10 39 | | DEC. . | 28 11 12 | 28 18 7 |
| | DEC. . | { 2 7 18 | 1 22 20 | | | | |
| | | { 31 20 2 | 31 11 41 | | | | |
| 1074. E. 15 1 40 | JAN. . | 30 8 46 | 30 2 34 | 1077. A. 14 19 6 | JAN. . | 26 28 57 | 27 4 58 |
| | FEB. . | 28 21 31 | 28 18 39 | | ○ | { 10 18 19 | 10 22 0 |
| | MAR. . | 30 10 15 | 30 11 17 | | FEB. . | { 25 12 41 | 25 14 48 |
| | ○ | { 14 4 37 | 14 8 43 | | MAR. . | 27 1 25 | 26 28 42 |
| | APRIL | { 28 22 59 | 29 3 38 | | APRIL | 25 14 9 | 25 8 38 |
| | MAY . | 23 11 43 | 23 18 51 | | MAY . | 25 2 53 | 24 18 23 |
| | JUNE . | 27 0 27 | 27 8 25 | | JUNE . | 23 15 37 | 23 5 47 |
| | JULY . | 26 13 11 | 26 20 14 | | JULY . | 23 4 21 | 22 19 20 |
| | AUG. . | 25 1 55 | 25 6 45 | | ○ | { 6 22 43 | 6 23 13 |
| | SEPT. . | 23 14 39 | 23 16 38 | | AUG. . | { 21 17 5 | 21 10 59 |
| | ○ | { 8 9 1 | 8 0 11 | | SEPT. . | 20 5 49 | 20 4 10 |
| | OCT. . | { 23 3 23 | 23 2 33 | | OCT. . | 19 18 33 | 19 21 47 |
| | NOV. . | 21 16 7 | 21 12 59 | | NOV. . | 18 7 17 | 18 14 46 |
| | DEC. . | 21 4 51 | 21 0 4 | | DEC. . | 17 20 1 | 18 6 12 |
| 1075. D. 15 7 29 | JAN. . | 19 17 35 | 19 11 51 | 1078. G. 15 0 55 | JAN. . | { 16 8 46 | 16 19 37 |
| | FEB. . | 18 6 19 | 18 0 25 | | ○ | { 31 3 8 | 30 22 26 |
| | MAR. . | 19 19 4 | 19 13 57 | | FEB. . | 14 21 30 | 15 6 51 |
| | ○ | { 3 13 26 | 4 0 53 | | MAR. . | 16 10 14 | 16 16 12 |
| | APRIL | { 18 7 43 | 18 4 26 | | APRIL | 14 22 58 | 15 0 14 |
| | MAY . | 17 20 32 | 17 19 38 | | MAY . | 14 11 42 | 14 7 45 |
| | JUNE . | 16 9 16 | 16 11 4 | | JUNE . | 13 0 26 | 12 15 46 |
| | JULY . | 15 22 0 | 16 2 4 | | JULY . | { 12 13 10 | 12 1 21 |
| | AUG. . | 14 10 44 | 14 16 7 | | ○ | { 27 7 32 | 27 14 0 |
| | SEPT. . | { 12 23 28 | 13 5 6 | | AUG. . | 11 1 54 | 10 18 23 |
| | ○ | { 27 17 50 | 27 3 59 | | SEPT. . | 9 14 38 | 9 4 15 |
| | OCT. . | 12 12 12 | 12 17 10 | | OCT. . | 9 3 22 | 8 21 36 |
| | NOV. . | 11 0 56 | 11 4 37 | | NOV. . | 7 16 6 | 7 16 25 |
| | DEC. . | 10 13 40 | 10 15 41 | | DEC. . | 7 4 50 | 7 11 18 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1079. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1082. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | (5 17 31 | 6 4 31 | B. | JAN. . | { 2 8 44 | 2 1 33 |
| March. | ○ | (20 11 56 | 20 5 8 | March. | { 31 21 28 | 31 19 8 | |
| <i>d. h. m.</i> | FEB. . | 4 6 18 | 4 19 27 | <i>d. h. m.</i> | ... | ... | |
| 15 6 41 | MAR. . | 5 19 2 | 6 7 31 | 15 0 10 | MAR. . | { 2 10 12 | 2 13 9 |
| | APRIL . | 4 7 46 | 4 17 1 | | { 31 22 56 | { 1 6 25 | |
| | MAY . | 3 20 30 | 4 0 42 | | 30 11 40 | { 30 21 51 | |
| | JUNE . | 2 9 14 | 2 7 32 | | ○ | { 15 6 2 | 15 0 0 |
| | JULY . | (1 21 58 | 1 14 32 | | MAY . | { 30 0 24 | 30 10 55 |
| | ○ | (31 10 42 | 30 22 52 | | JUNE . | 28 13 8 | 28 21 43 |
| | AUG. . | 29 23 26 | 29 9 32 | | JULY . | 28 1 52 | 28 6 55 |
| | SEPT. . | 28 12 10 | 27 23 12 | | AUG. . | 26 14 36 | 26 15 24 |
| | OCT. . | 28 0 54 | 27 15 52 | | SEPT. . | 25 8 20 | 25 0 6 |
| | NOV. . | 26 13 34 | 26 10 44 | | OCT. . | 24 16 4 | 24 9 44 |
| | DEC. . | 26 2 22 | 26 6 20 | | ○ | { 8 10 26 | 8 13 45 |
| | | | | | NOV. . | { 23 4 48 | 22 20 41 |
| 1080. | JAN. . | 24 15 7 | 25 0 58 | | DEC. . | 22 17 32 | 22 9 9 |
| B.D. | FEB. . | 23 8 51 | 23 17 14 | | | | |
| 11 12 33 | MAR. . | 23 16 35 | 24 6 26 | 1083. | JAN. . | 21 6 17 | 20 23 8 |
| | APRIL . | 22 5 19 | 22 16 48 | A. | FEB. . | 19 19 1 | 19 14 23 |
| | MAY . | 21 18 3 | 22 0 45 | 15 5 59 | MAR. . | 21 7 45 | 21 6 33 |
| | ○ | (5 12 25 | 5 9 6 | | APRIL . | 19 20 29 | 19 22 56 |
| | JUNE . | (20 6 47 | 20 7 36 | | MAY . | 19 9 13 | 19 14 42 |
| | JULY . | 19 19 31 | 19 14 22 | | JUNE . | 17 21 57 | 18 5 11 |
| | AUG. . | 18 8 15 | 17 22 9 | | JULY . | 17 10 41 | 17 18 0 |
| | SEPT. . | 16 20 59 | 16 7 54 | | AUG. . | 15 23 25 | 16 5 20 |
| | OCT. . | 16 9 43 | 15 20 20 | | SEPT. . | 14 12 9 | 14 15 43 |
| | NOV. . | (14 22 27 | 14 11 43 | | OCT. . | 14 0 53 | 14 1 43 |
| | ○ | (29 16 49 | 29 22 37 | | NOV. . | 12 13 37 | 12 12 8 |
| | DEC. . | 14 11 11 | 14 5 33 | | DEC. . | 12 2 21 | 11 22 55 |
| | | | | | | | |
| 1081. | JAN. . | 12 23 56 | 13 0 43 | 1084. | JAN. . | 10 15 6 | 10 10 16 |
| C. | FEB. . | 11 12 40 | 11 19 37 | G.F. | FEB. . | 9 8 50 | 8 22 13 |
| 11 18 22 | MAR. . | 13 1 24 | 13 12 47 | 14 11 43 | MAR. . | { 9 16 34 | 9 10 57 |
| | APRIL . | 11 14 8 | 12 3 14 | | ○ | { 24 10 56 | 24 23 52 |
| | MAY . | (11 2 52 | 11 14 47 | | APRIL . | 8 5 18 | 8 0 33 |
| | ○ | (25 21 14 | 25 12 57 | | MAY . | 7 13 2 | 7 15 13 |
| | JUNE . | 9 15 36 | 9 23 54 | | JUNE . | 6 6 43 | 6 6 35 |
| | JULY . | 9 4 20 | 9 7 32 | | JULY . | 5 19 30 | 5 21 54 |
| | AUG. . | 7 17 4 | 7 14 43 | | AUG. . | 4 8 14 | 4 12 40 |
| | SEPT. . | 6 5 43 | 5 22 42 | | SEPT. . | { 2 20 53 | 3 2 23 |
| | OCT. . | 5 13 32 | 5 8 8 | | ○ | { 17 15 20 | 17 1 23 |
| | NOV. . | { 4 7 16 | 3 19 33 | | OCT. . | { 2 9 42 | 2 15 16 |
| | ○ | (19 1 34 | 19 9 46 | | NOV. . | { 31 22 26 | { 1 8 15 |
| | DEC. . | 3 20 0 | 3 9 29 | | DEC. . | 30 11 10 | { 30 14 39 |
| | | | | | | 29 23 54 | 30 1 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1085. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1088. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 14 17 37 | JAN. . | 23 12 38 | 28 12 9 | March. <i>d. h. m.</i> 14 11 3 | ○ | { 11 9 26 | 11 2 52 |
| | FEB. . | 27 1 22 | 26 22 26 | | JAN. . | { 26 3 48 | 26 16 30 |
| | ○ | { 13 19 44 | 14 8 54 | | FEB. . | { 21 16 32 | 25 5 51 |
| | MAR. . | { 23 14 6 | 28 8 52 | | MAR. . | { 25 5 16 | 25 16 31 |
| | APRIL | 27 2 50 | 26 20 2 | | APRIL | 23 18 0 | 24 0 53 |
| | MAY . | 26 15 34 | 26 8 30 | | MAY . | 23 6 44 | 23 7 55 |
| | JUNE . | 25 4 18 | 24 22 32 | | JUNE . | 21 19 28 | 21 14 39 |
| | JULY . | 24 17 2 | 24 13 57 | | ○ | { 6 13 50 | 6 18 56 |
| | AUG. . | 23 5 46 | 23 6 6 | | JULY . | { 21 8 12 | 20 22 11 |
| | ○ | { 7 0 8 | 6 14 28 | | AUG. . | 19 20 56 | 19 7 36 |
| | SEPT. . | { 21 18 30 | 21 22 11 | | SEPT. . | 18 9 40 | 17 19 48 |
| | OCT. . | 21 7 14 | 21 13 34 | | OCT. . | 17 22 24 | 17 11 5 |
| 1086. D. | Nov. . | 19 19 58 | 20 3 48 | 1089. G. | Nov. . | 16 11 8 | 16 5 3 |
| | DEC. . | 19 8 42 | 19 16 39 | | DEC. . | { 15 23 52 | 16 0 31 |
| | | | | | ○ | { 30 18 14 | 30 17 11 |
| | JAN. . | 17 21 26 | 18 4 6 | | JAN. . | 14 12 36 | 14 19 50 |
| | FEB. . | 16 10 11 | 16 14 14 | | FEB. . | 13 1 21 | 13 13 23 |
| | ○ | { 3 4 33 | 3 10 50 | | MAR. . | 14 14 5 | 15 4 5 |
| | MAR. . | { 17 22 55 | 17 23 19 | | APRIL | 13 2 49 | 13 15 41 |
| | APRIL | 16 11 39 | 16 7 58 | | MAY . | 12 15 33 | 13 0 41 |
| | MAY . | 16 0 23 | 15 16 58 | | JUNE . | { 11 4 17 | 11 7 59 |
| | JUNE . | 14 13 7 | 14 3 16 | | ○ | { 25 22 39 | 25 19 55 |
| | JULY . | 14 1 51 | 13 15 38 | | JULY . | 10 17 1 | 10 14 42 |
| | AUG. . | { 12 14 35 | 12 6 20 | | AUG. . | 9 5 45 | 8 21 54 |
| 1087. C. | ○ | { 27 8 57 | 27 7 4 | 1090. F. | SEPT. . | 7 18 29 | 7 6 40 |
| | SEPT. . | 11 3 19 | 10 23 0 | | OCT. . | 7 7 13 | 6 17 48 |
| | OCT. . | 10 16 3 | 10 16 45 | | Nov. . | 5 19 57 | 5 7 47 |
| | Nov. . | 9 4 47 | 9 10 26 | | DEC. . | { 5 8 41 | 5 0 27 |
| | DEC. . | 8 17 31 | 9 2 56 | | ○ | { 20 3 3 | 20 8 51 |
| | JAN. . | 7 6 15 | 7 17 29 | | JAN. . | 3 21 25 | 3 19 3 |
| | FEB. . | 5 18 59 | 6 5 45 | | FEB. . | 2 10 9 | 2 11 9 |
| | MAR. . | 7 7 43 | 7 15 51 | | MAR. . | 3 22 53 | 4 8 12 |
| | APRIL | 5 20 27 | 6 0 17 | | APRIL | 2 11 37 | 2 23 59 |
| | MAY . | 5 9 11 | 5 7 47 | | MAY . | { 2 0 21 | 2 12 55 |
| | JUNE . | 3 21 55 | 3 15 16 | | ○ | { 31 13 5 | 31 23 10 |
| | JULY . | 3 10 39 | 2 23 52 | | JUNE . | 30 1 49 | 30 7 29 |
| 15 5 15 | AUG. . | { 1 23 23 | 1 10 33 | | JULY . | 29 14 33 | 29 14 56 |
| | ○ | { 31 12 7 | 31 0 3 | | AUG. . | 28 3 17 | 27 22 31 |
| | SEPT. . | 30 0 51 | 29 16 21 | | SEPT. . | 26 16 1 | 26 7 19 |
| | OCT. . | 29 13 35 | 29 10 46 | | OCT. . | 26 4 45 | 25 17 50 |
| | Nov. . | 28 2 19 | 28 5 54 | | Nov. . | 24 17 29 | 24 6 33 |
| | DEC. . | 27 15 3 | 28 0 15 | | DEC. . | 24 6 13 | 23 21 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1091. E. March. d. h. m. 15 4 30 | | d. h. m. | d. h. m. | A.D. 1094. A. March. d. h. m. 14 21 56 | | d. h. m. | d. h. m. |
| | JAN. . | 22 18 58 | 22 14 12 | | JAN. . | 19 10 8 | 19 11 21 |
| | FEB. . | 21 7 42 | 21 7 57 | | FEB. . | 17 22 52 | 17 21 33 |
| | MAR. . | 22 20 26 | 23 1 30 | | MAR. . | 19 11 36 | 19 7 34 |
| | APRIL | 21 9 10 | 21 17 50 | | APRIL | 18 0 20 | 17 18 1 |
| | ○ | { 6 3 32 | 5 23 39 | | MAY . | 17 13 4 | 17 5 32 |
| | MAY . | { 20 21 54 | 21 8 5 | | JUNE . | 16 1 48 | 15 18 38 |
| | JUNE . | 19 10 38 | 19 20 4 | | JULY . | 15 14 32 | 15 9 22 |
| | JULY . | 18 23 22 | 19 6 7 | | AUG. . | 14 3 16 | 14 1 23 |
| | AUG. . | 17 12 6 | 17 15 1 | | SEPT. . | 12 16 0 | 12 17 49 |
| | SEPT. . | 16 0 50 | 15 23 45 | | OCT. . | 12 4 44 | 12 9 56 |
| | OCT. . | { 15 13 34 | 15 9 3 | | NOV. . | 10 17 23 | 11 1 3 |
| | ○ | { 30 7 56 | 30 8 23 | | DEC. . | 10 6 12 | 10 14 46 |
| | NOV. . | 14 2 18 | 13 19 26 | | | | |
| | DEC. . | 13 15 2 | 13 7 8 | 1095. G. | JAN. . | 8 18 57 | 9 2 59 |
| 1092. D.C. | JAN. . | 12 3 47 | 11 20 14 | | FEB. . | { 7 7 41 | 7 13 33 |
| 14 10 19 | FEB. . | 10 16 31 | 10 10 38 | | ○ | { 22 2 3 | 22 5 30 |
| | MAR. . | 11 5 15 | 11 2 7 | 15 3 45 | MAR. . | 8 20 25 | 8 23 1 |
| | APRIL | { 9 17 59 | 9 18 13 | | APRIL | 7 9 9 | 7 7 35 |
| | ○ | { 24 12 21 | 24 16 29 | | MAY . | 6 21 53 | 6 16 4 |
| | MAY . | 9 6 43 | 9 10 14 | | JUNE . | 5 10 37 | 5 1 26 |
| | JUNE . | 7 19 27 | 8 1 25 | | JULY . | 4 23 21 | 4 12 35 |
| | JULY . | 7 8 11 | 7 15 12 | | AUG. . | { 3 12 5 | 3 2 7 |
| | AUG. . | 5 20 55 | 6 3 27 | | ○ | { 18 6 27 | 18 6 58 |
| | SEPT. . | 4 9 30 | 4 14 29 | | SEPT. . | 2 0 49 | 1 17 59 |
| | OCT. . | { 3 22 23 | 4 0 55 | | OCT. . | { 1 13 33 | 1 11 31 |
| | ○ | { 18 16 45 | 18 7 50 | | | { 31 2 17 | 31 5 36 |
| | NOV. . | 2 11 7 | 2 11 18 | | NOV. . | 29 15 1 | 29 23 2 |
| | | { 1 23 51 | 1 21 56 | | DEC. . | 29 3 45 | 29 14 41 |
| | DEC. . | { 31 12 35 | 31 8 58 | | | | |
| 1093. H. | JAN. . | 30 1 19 | 29 20 25 | 1096. F.E. | JAN. . | 27 16 29 | 28 4 9 |
| 11 16 8 | FEB. . | 28 14 8 | 28 8 23 | | ○ | { 11 10 51 | 11 6 17 |
| | MAR. . | 30 2 47 | 29 21 21 | 14 9 31 | FEB. . | { 26 5 13 | 26 15 13 |
| | ○ | { 13 21 9 | 14 8 33 | | MAR. . | 26 17 57 | 27 0 16 |
| | APRIL | { 28 15 31 | 28 11 16 | | APRIL | 25 6 41 | 25 7 57 |
| | MAY . | 28 4 15 | 28 2 7 | | MAY . | 24 19 25 | 24 15 10 |
| | JUNE . | 26 16 59 | 26 17 29 | | JUNE . | 23 8 9 | 22 22 58 |
| | JULY . | 26 5 43 | 26 8 45 | | JULY . | 22 20 53 | 22 8 28 |
| | AUG. . | 24 18 27 | 24 23 18 | | ○ | { 6 15 15 | 6 21 22 |
| | SEPT. . | 23 7 11 | 23 12 53 | | AUG. . | { 21 9 37 | 20 20 33 |
| | ○ | { 8 1 33 | 7 11 54 | | SEPT. . | 19 22 21 | 19 11 35 |
| | OCT. . | { 22 19 55 | 23 1 32 | | OCT. . | 19 11 5 | 19 5 11 |
| | NOV. . | 21 8 39 | 21 13 25 | | NOV. . | 17 23 49 | 18 0 17 |
| | DEC. . | 20 21 23 | 21 0 39 | | DEC. . | 17 12 33 | 17 19 20 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1097. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1100. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | { 16 1 18 | 16 12 48 | A.G. | JAN. . | 13 16 28 | 13 9 46 |
| | ○ | { 30 19 40 | 30 13 28 | March. | FEB. . | 12 5 12 | 12 2 58 |
| March. | FEB. . | 14 14 2 | 15 3 38 | <i>d. h. m.</i> | MAR. . | 12 17 56 | 12 20 25 |
| <i>d. h. m.</i> | MAR. . | 16 2 46 | 16 15 31 | 14 8 49 | APRIL | 11 6 40 | 11 13 20 |
| 14 15 23 | APRIL | 14 15 30 | 15 0 49 | | MAY . | { 10 19 24 | 11 4 37 |
| | MAY . | 14 4 14 | 14 8 17 | | ○ | { 25 13 46 | 25 7 21 |
| | JUNE . | 12 16 58 | 12 14 59 | | JUNE . | 9 8 8 | 9 17 46 |
| | JULY . | 12 5 42 | 11 21 58 | | JULY . | 8 20 52 | 9 4 51 |
| | AUG. . | 10 18 26 | 10 6 22 | | AUG. . | 7 9 36 | 7 14 25 |
| | SEPT. . | 9 7 10 | 8 17 10 | | SEPT. . | 5 22 20 | 5 23 21 |
| | OCT. . | 8 19 54 | 8 6 53 | | OCT. . | 5 11 4 | 5 8 30 |
| | NOV. . | 7 8 38 | 6 23 46 | | NOV. . | { 3 23 48 | 3 18 29 |
| | DEC. . | 6 21 22 | 6 18 41 | | ○ | { 18 18 10 | 18 21 42 |
| | | | | | DEC. . | 3 12 32 | 3 5 38 |
| 1098. | JAN. . | 5 10 7 | 5 14 18 | | | | |
| C. | FEB. . | 3 22 51 | 4 8 50 | 1101. | JAN. . | { 2 1 16 | 1 17 51 |
| 14 21 12 | MAR. . | 5 11 35 | 6 0 58 | F. | { 31 14 0 | 31 7 23 | |
| | APRIL | 4 0 19 | 4 14 1 | | FEB. . | ... | ... |
| | MAY . | 3 13 3 | 4 0 10 | 14 14 38 | MAR. . | { 2 2 44 | 1 22 4 |
| | JUNE . | 2 1 47 | 2 8 10 | | { 31 15 23 | 31 13 39 | |
| | JULY . | { 1 14 31 | 1 15 4 | | APRIL | 30 4 12 | 30 5 35 |
| | | { 31 3 15 | 30 23 59 | | MAY . | 29 16 56 | 29 21 12 |
| | AUG. . | 29 15 59 | 29 5 59 | | JUNE . | 28 5 40 | 28 11 49 |
| | SEPT. . | 28 4 43 | 27 15 57 | | JULY . | 27 18 24 | 28 1 0 |
| | OCT. . | 27 17 27 | 27 4 34 | | AUG. . | 26 7 8 | 26 12 51 |
| | NOV. . | 26 6 11 | 25 19 56 | | SEPT. . | 24 19 52 | 24 23 47 |
| | ○ | { 11 0 33 | 11 7 28 | | OCT. . | 24 8 36 | 24 10 28 |
| | DEC. . | { 25 18 55 | 25 13 38 | | NOV. . | 22 21 20 | 22 21 1 |
| | | | | | DEC. . | 22 10 4 | 22 7 51 |
| 1099. | JAN. . | 24 7 39 | 24 8 31 | 1102. | JAN. . | 20 22 48 | 20 18 58 |
| B. | FEB. . | 22 20 23 | 23 3 8 | E. | FEB. . | 19 11 32 | 19 6 27 |
| 15 3 1 | MAR. . | 24 9 7 | 24 20 2 | 14 20 27 | MAR. . | 21 0 17 | 20 18 35 |
| | APRIL | 22 21 51 | 23 10 22 | | ○ | { 4 18 39 | 5 7 33 |
| | MAY . | 22 10 35 | 22 21 53 | | APRIL | { 19 13 1 | 19 7 41 |
| | ○ | { 6 4 57 | 5 19 49 | | MAY . | 19 1 45 | 18 21 54 |
| | JUNE . | { 20 23 19 | 21 7 8 | | JUNE . | 17 14 29 | 17 12 51 |
| | JULY . | 20 12 3 | 20 15 0 | | JULY . | 17 3 13 | 17 4 28 |
| | AUG. . | 19 0 47 | 18 22 34 | | AUG. . | 15 15 57 | 15 19 38 |
| | SEPT. . | 17 13 31 | 17 6 51 | | SEPT. . | { 14 4 41 | 14 10 0 |
| | OCT. . | 17 2 15 | 16 16 34 | | ○ | { 28 23 3 | 28 9 18 |
| | NOV. . | { 15 14 59 | 15 4 13 | | OCT. . | 13 17 25 | 13 23 24 |
| | ○ | { 30 9 21 | 30 18 11 | | NOV. . | 12 6 9 | 12 11 53 |
| | DEC. . | 15 3 43 | 14 18 0 | | DEC. . | 11 18 53 | 11 23 34 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1103. D. March. d. h. m. 15 2 16 | JAN. . | d. h. m. 10 7 37 | d. h. m. 10 10 31 | A.D. 1106. G. | JAN. . | d. h. m. 6 22 48 | d. h. m. 7 8 26 |
| | FEB. . | 8 20 21 | 8 20 47 | | ○ | { 21 17 10 | 21 11 29 |
| | MAR. . | { 10 9 6 | 10 6 38 | March. d. h. m. 14 19 42 | FEB. . | 5 11 32 | 6 0 39 |
| | ○ | { 25 3 28 | 25 16 19 | | MAR. . | 7 0 16 | 7 13 56 |
| | APRIL | 8 21 50 | 8 16 31 | | APRIL | 5 18 0 | 6 0 20 |
| | MAY . | 8 10 34 | 8 3 9 | | MAY . | 5 1 44 | 5 8 30 |
| | JUNE . | 6 23 18 | 6 15 14 | | JUNE . | 3 14 28 | 3 15 23 |
| | JULY . | 6 12 2 | 6 5 6 | | JULY . | { 3 3 12 | 2 22 5 |
| | AUG. . | 5 0 46 | 4 20 37 | | ○ | { 17 21 34 | 18 1 36 |
| | SEPT. . | { 3 18 30 | 3 13 7 | | AUG. . | { 1 15 56 | 1 5 41 |
| | ○ | { 18 7 52 | 17 22 36 | | | { 31 4 40 | 30 15 14 |
| | OCT. . | 3 2 14 | 3 5 46 | | SEPT. . | 29 17 24 | 29 3 35 |
| | NOV. . | 1 14 53 | 1 21 44 | | OCT. . | 29 6 8 | 28 19 0 |
| | DEC. . | { 1 3 42 | 1 12 21 | | NOV. . | 27 18 52 | 27 13 3 |
| | | { 30 16 26 | 31 1 27 | | DEC. . | 27 7 36 | 27 8 30 |
| 1104. C.B. | JAN. . | 29 5 10 | 29 12 50 | 1107. F. | ○ | { 11 1 58 | 11 2 5 |
| | FEB. . | 27 17 54 | 27 22 40 | | JAN. . | { 25 20 20 | 26 3 42 |
| | ○ | { 13 12 16 | 13 18 3 | 15 1 31 | FEB. . | 24 9 4 | 24 21 5 |
| 11 8 5 | MAR. . | { 28 6 38 | 28 7 21 | | MAR. . | 25 21 48 | 26 11 38 |
| | APRIL | 26 19 22 | 26 15 32 | | APRIL | 24 10 32 | 24 23 6 |
| | MAY . | 26 8 6 | 26 0 9 | | MAY . | 23 23 16 | 24 8 3 |
| | JUNE . | 24 20 50 | 24 10 11 | | JUNE . | 22 12 0 | 22 15 22 |
| | JULY . | 24 9 34 | 23 22 28 | | ○ | { 7 6 22 | 7 2 23 |
| | AUG. . | 22 22 18 | 22 13 14 | | JULY . | { 22 0 44 | 21 22 13 |
| | ○ | { 6 16 40 | 6 15 5 | | AUG. . | 20 13 28 | 20 5 41 |
| | SEPT. . | { 21 11 2 | 21 6 12 | | SEPT. . | 19 2 12 | 18 14 42 |
| | OCT. . | 20 28 46 | 21 0 23 | | OCT. . | 18 14 56 | 18 2 2 |
| | NOV. . | 19 12 30 | 19 18 31 | | NOV. . | 17 3 40 | 16 16 3 |
| | DEC. . | 19 1 14 | 19 11 20 | | DEC. . | { 16 16 24 | 16 8 38 |
| | | | | | ○ | { 31 10 46 | 31 17 44 |
| 1105. A. | JAN. . | 17 13 59 | 18 2 1 | 1108. E.D. | JAN. . | 15 5 9 | 15 2 59 |
| | FEB. . | 16 2 43 | 16 14 11 | | FEB. . | 13 17 53 | 13 21 45 |
| 1a 13 54 | MAR. . | 17 15 27 | 18 0 1 | 14 7 20 | MAR. . | 14 6 37 | 14 15 30 |
| | APRIL | 16 4 11 | 16 8 7 | | APRIL | 12 19 21 | 13 7 6 |
| | MAY . | 15 16 55 | 15 15 19 | | MAY . | 12 8 5 | 12 19 59 |
| | JUNE . | 14 5 39 | 13 22 35 | | JUNE . | 10 20 49 | 11 6 20 |
| | JULY . | 13 13 23 | 13 7 3 | | JULY . | 10 9 33 | 10 14 51 |
| | AUG. . | 12 7 7 | 11 17 46 | | AUG. . | 8 22 17 | 8 22 37 |
| | SEPT. . | 10 19 51 | 10 7 22 | | SEPT. . | 7 11 1 | 7 6 35 |
| | OCT. . | 10 8 35 | 9 23 53 | | OCT. . | 6 23 45 | 6 15 43 |
| | NOV. . | 8 21 19 | 8 18 33 | | NOV. . | 5 12 29 | 5 2 27 |
| | DEC. . | 8 10 3 | 8 13 57 | | DEC. . | 5 1 13 | 4 15 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1109. c. March. d. h. m. 14 13 9 | JAN. . | d. h. m. 3 13 53 | d. h. m. 3 5 51 | A.D. 1112. G.F. March. d. h. m. 14 6 35 | JAN. . | d. h. m. 1 5 7 | d. h. m. 1 9 36 |
| | FEB. . | 2 2 42 | 1 22 9 | | FEB. . | { 30 17 51 | 30 20 6 |
| | MAR. . | 3 15 26 | 3 15 21 | | MAR. . | 29 6 35 | 29 5 54 |
| | APRIL | 2 4 10 | 2 8 29 | | APRIL | 29 19 19 | 29 15 25 |
| | | 1 16 54 | 2 0 35 | | MAY . | 28 8 3 | 28 1 19 |
| | MAY ○ | { 16 11 16 | 16 7 7 | | JUNE . | 27 20 47 | 27 12 24 |
| | | 31 5 38 | 31 14 50 | | JULY . | 26 9 31 | 26 1 14 |
| | JUNE . | 29 18 22 | 30 3 1 | | AUG. . | 25 22 15 | 25 15 59 |
| | JULY . | 29 7 6 | 29 13 26 | | SEPT. . | 24 10 59 | 24 8 13 |
| | AUG. . | 27 19 50 | 27 22 49 | | OCT. . | 22 23 43 | 23 1 9 |
| | SEPT. . | 26 8 34 | 26 8 2 | | NOV. . | 22 12 27 | 22 17 50 |
| | OCT. . | 25 21 18 | 25 17 42 | | DEC. . | 21 1 11 | 21 9 28 |
| | ○ | { 9 15 40 | 9 16 12 | | | 20 18 55 | 20 23 30 |
| | NOV. . | { 24 10 2 | 24 4 18 | | | | |
| | DEC. . | 23 22 46 | 23 15 56 | 1113. E. | JAN. . | 19 2 40 | 19 11 44 |
| 1110. B. 14 18 57 | JAN. . | 22 11 30 | 22 4 42 | | FEB. . | 17 15 24 | 17 22 11 |
| | FEB. . | 21 0 14 | 20 18 33 | | ○ | { 4 9 46 | 4 12 51 |
| | MAR. . | 22 12 53 | 22 9 25 | 14 12 24 | MAR. . | { 19 4 8 | 19 7 11 |
| | APRIL | 21 1 42 | 21 1 1 | | APRIL | 17 16 52 | 17 15 19 |
| | ○ | { 5 20 4 | 6 0 6 | | MAY . | 17 5 36 | 16 23 24 |
| | MAY . | { 20 14 26 | 20 16 44 | | JUNE . | 15 18 20 | 15 8 23 |
| | JUNE . | 19 3 10 | 19 7 56 | | JULY . | 15 7 4 | 14 19 23 |
| | JULY . | 18 15 54 | 18 21 59 | | AUG. . | { 13 19 48 | 13 9 0 |
| | AUG. . | 17 4 33 | 17 10 44 | | ○ | { 28 14 10 | 28 14 50 |
| | SEPT. . | 15 17 22 | 15 22 21 | | SEPT. . | 12 8 32 | 12 1 4 |
| | OCT. . | { 15 6 6 | 15 9 20 | | OCT. . | 11 21 16 | 11 18 53 |
| | ○ | { 30 0 28 | 29 15 36 | | NOV. . | 10 10 0 | 10 13 31 |
| | NOV. . | 13 18 50 | 13 20 6 | | DEC. . | 9 22 44 | 10 7 13 |
| | DEC. . | 13 7 34 | 13 6 53 | 1114. D. | JAN. . | 8 11 29 | 8 23 13 |
| 1111. A. 15 0 46 | JAN. . | 11 20 19 | 11 17 50 | | FEB. . | { 7 0 13 | 7 12 37 |
| | FEB. . | 10 9 3 | 10 4 54 | | ○ | { 21 18 35 | 21 14 3 |
| | MAR. . | 11 21 47 | 11 16 23 | 14 18 13 | MAR. . | 8 12 57 | 8 23 27 |
| | APRIL | { 10 10 31 | 10 4 39 | | APRIL | 7 1 41 | 7 8 12 |
| | ○ | { 25 4 53 | 25 16 8 | | MAY . | 6 14 25 | 6 15 35 |
| | MAY . | 9 23 15 | 9 18 3 | | JUNE . | 5 3 9 | 4 22 34 |
| | JUNE . | 8 11 59 | 8 8 38 | | JULY . | 4 15 53 | 4 6 15 |
| | JULY . | 8 0 43 | 7 23 59 | | AUG. . | { 3 4 37 | 2 15 43 |
| | AUG. . | 6 13 27 | 6 15 31 | | ○ | { 17 22 59 | 18 4 49 |
| | SEPT. . | 5 2 11 | 5 6 35 | | SEPT. . | 1 17 21 | { 1 3 52 |
| | OCT. . | { 4 14 55 | 4 20 43 | | | { 1 6 5 | { 30 19 4 |
| | ○ | { 19 9 17 | 18 19 59 | | OCT. . | { 30 18 49 | 30 12 53 |
| | NOV. . | 3 3 39 | 3 10 1 | | NOV. . | 29 7 33 | 29 8 14 |
| | DEC. . | 2 16 23 | 2 22 15 | | DEC. . | 28 20 17 | 29 3 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1115. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1118. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 0 2 | JAN. . | 27 9 1 | 27 20 55 | March. <i>d. h. m.</i> 14 17 28 | JAN. . | 24 0 11 | 23 17 54 |
| | ○ | { 11 3 23 | 10 21 49 | | FEB. . | 22 12 55 | 22 10 28 |
| | FEB. . | { 25 21 45 | 26 11 39 | | MAR. . | 24 1 39 | 24 3 31 |
| | MAR. . | 27 10 29 | 27 23 22 | | APRIL | 22 14 23 | 22 20 5 |
| | APRIL | 25 23 13 | 26 8 27 | | MAY . | 22 3 7 | 22 11 16 |
| | MAY . | 25 11 57 | 25 15 46 | | ○ | { 5 21 29 | 5 14 38 |
| | JUNE . | 24 0 41 | 23 22 24 | | JUNE . | { 20 15 51 | 21 0 33 |
| | JULY . | 23 13 25 | 23 5 26 | | JULY . | 20 4 35 | 20 11 58 |
| | ○ | { 7 7 47 | 7 12 12 | | AUG. . | 18 17 19 | 18 22 0 |
| | AUG. . | { 22 2 9 | 21 13 58 | | SEPT. . | 17 6 3 | 17 7 26 |
| | SEPT. . | 20 14 58 | 20 0 56 | | OCT. . | 16 18 47 | 16 17 3 |
| | OCT. . | 20 3 37 | 19 14 53 | | NOV. . | { 15 7 31 | 15 3 18 |
| | NOV. . | 18 16 21 | 18 7 46 | | ○ | { 30 1 53 | 30 5 42 |
| | DEC. . | 18 5 5 | 18 2 41 | | DEC. . | 14 20 15 | 14 14 25 |
| 1116. B.A. | JAN. . | 16 17 50 | 16 22 11 | 1119. E. | JAN. . | 13 9 0 | 13 2 31 |
| 14 5 50 | FEB. . | 15 6 34 | 15 16 33 | 14 23 17 | FEB. . | 11 21 44 | 11 15 34 |
| | MAR. . | 15 19 18 | 16 8 30 | | MAR. . | 13 10 28 | 13 5 39 |
| | APRIL | 14 8 2 | 14 21 25 | | APRIL | 11 23 12 | 11 20 38 |
| | MAY . | 13 20 46 | 14 7 29 | | MAY . | 11 11 56 | 11 12 12 |
| | JUNE . | 12 9 30 | 12 15 30 | | JUNE . | 10 0 40 | 10 3 41 |
| | JULY . | 11 22 14 | 11 22 32 | | JULY . | 9 13 24 | 9 18 27 |
| | AUG. . | 10 10 58 | 10 5 42 | | AUG. . | 8 2 8 | 8 8 3 |
| | SEPT. . | 8 23 42 | 8 13 57 | | SEPT. . | 6 14 52 | 6 20 29 |
| | OCT. . | 8 12 26 | 8 0 10 | | OCT. . | 6 3 36 | 6 8 1 |
| | NOV. . | 7 1 10 | 6 12 54 | | NOV. . | 4 16 20 | 4 19 4 |
| | DEC. . | { 6 13 54 | 6 4 14 | | DEC. . | 4 5 4 | 4 5 58 |
| | ○ | { 21 8 16 | 21 16 18 | | | | |
| 1117. G. | JAN. . | 5 2 39 | 4 21 43 | 1120. D.C. | JAN. . | 2 17 49 | 2 16 50 |
| 14 11 39 | FEB. . | 3 15 23 | 3 16 15 | 14 5 6 | FEB. . | 1 6 33 | 1 3 39 |
| | MAR. . | 5 4 7 | 5 10 30 | | MAR. . | { 1 19 17 | 1 14 38 |
| | APRIL | 8 16 51 | 4 3 9 | | ○ | { 31 8 1 | 31 2 9 |
| | MAY . | 8 5 35 | 3 17 23 | | ○ | { 15 2 23 | 15 15 9 |
| | JUNE . | { 1 18 19 | 2 4 57 | | APRIL | { 29 20 45 | 29 14 41 |
| | ○ | { 16 12 41 | 16 2 43 | | MAY . | 29 9 29 | 29 4 30 |
| | JULY . | { 1 7 3 | 1 14 23 | | JUNE . | 27 22 13 | 27 19 27 |
| | ○ | { 30 19 47 | 30 22 32 | | JULY . | 27 10 57 | 27 11 5 |
| | AUG. . | 29 8 31 | 29 6 30 | | AUG. . | 25 23 41 | 26 2 41 |
| | SEPT. . | 27 21 15 | 27 15 10 | | SEPT. . | 24 12 25 | 24 17 39 |
| | OCT. . | 27 9 59 | 27 1 8 | | ○ | { 9 6 47 | 8 17 24 |
| | NOV. . | 25 22 43 | 25 12 54 | | OCT. . | { 24 1 9 | 24 7 39 |
| | ○ | { 10 17 5 | 11 2 39 | | NOV. . | 22 13 53 | 22 20 37 |
| | DEC. . | { 25 11 27 | 25 2 33 | | DEC. . | 22 2 37 | 22 8 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1121. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1124. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 20 15 21 | 20 19 22 | | JAN. . | 18 6 31 | 18 16 29 |
| <i>d. h. m.</i> | FEB. . | 19 4 5 | 19 5 20 | | ○ | { 2 0 53 | 1 20 1 |
| 14 10 55 | MAR. . | 20 16 49 | 20 14 41 | March. | FEB. . | { 16 19 15 | 17 8 39 |
| | ○ | { 4 11 11 | 4 23 33 | <i>d. h. m.</i> | MAR. . | 17 7 59 | 17 21 47 |
| | APRIL | { 19 5 33 | 19 0 1 | 14 4 21 | APRIL | 15 20 43 | 16 8 0 |
| | MAY . | 18 18 17 | 18 10 11 | | MAY . | 15 9 27 | 15 16 0 |
| | JUNE . | 17 7 1 | 16 21 57 | | JUNE . | 13 22 11 | 13 22 50 |
| | JULY . | 16 19 45 | 16 11 42 | | JULY . | { 13 10 55 | 13 5 33 |
| | AUG. . | 15 8 29 | 15 3 21 | | ○ | { 28 5 17 | 28 8 18 |
| | SEPT. . | { 13 21 13 | 13 20 14 | | AUG. . | 11 23 39 | 11 18 17 |
| | ○ | { 28 15 35 | 28 6 50 | | SEPT. . | 10 12 23 | 9 23 1 |
| | OCT. . | 13 9 57 | 13 13 27 | | OCT. . | 10 1 7 | 9 11 31 |
| | NOV. . | 11 22 41 | 12 5 57 | | NOV. . | 8 13 51 | 8 3 2 |
| | DEC. . | 11 11 25 | 11 21 0 | | DEC. . | 8 2 35 | 7 21 4 |
| 1122. | | | | 1125. | | | |
| A. | JAN. . | 10 0 10 | 10 10 13 | D. | JAN. . | { 6 15 20 | 6 16 25 |
| 14 16 43 | FEB. . | 8 12 54 | 8 21 27 | | ○ | { 21 9 42 | 21 10 56 |
| | MAR. . | { 10 1 38 | 10 6 59 | 14 10 10 | FEB. . | 5 4 4 | 5 11 26 |
| | ○ | { 24 20 0 | 25 1 9 | | MAR. . | 6 16 48 | 7 4 39 |
| | APRIL | 8 14 22 | 8 15 15 | | APRIL | 5 5 32 | 5 19 2 |
| | MAY . | 8 3 6 | 7 23 3 | | MAY . | 4 18 16 | 5 6 25 |
| | JUNE . | 6 15 50 | 6 7 21 | | JUNE . | 3 7 0 | 3 15 21 |
| | JULY . | 6 4 34 | 5 17 10 | | JULY . | { 2 19 44 | 2 22 43 |
| | AUG. . | 4 17 18 | 4 5 24 | | ○ | { 17 14 6 | 17 8 57 |
| | SEPT. . | { 3 6 2 | 2 20 19 | | AUG. . | { 1 8 28 | 1 5 52 |
| | ○ | { 18 0 24 | 17 23 15 | | SEPT. . | { 30 21 12 | 30 13 36 |
| | OCT. . | 2 18 46 | 2 13 34 | | OCT. . | 29 9 56 | 28 22 54 |
| | NOV. . | { 1 7 30 | 1 8 9 | | NOV. . | 28 22 40 | 28 10 24 |
| | DEC. . | { 80 20 14 | { 1 2 39 | | DEC. . | 27 11 24 | 27 0 27 |
| | | 80 8 58 | 80 19 43 | | | 27 0 8 | 26 16 51 |
| 1123. | | | | 1126. | | | |
| G. | JAN. . | 28 21 43 | 29 10 27 | C. | JAN. . | { 10 18 30 | 11 2 36 |
| 14 22 32 | FEB. . | 27 10 27 | 27 22 28 | | FEB. . | { 25 12 52 | 25 10 49 |
| | MAR. . | 28 23 11 | 29 8 3 | 14 15 50 | MAR. . | 24 1 36 | 24 5 11 |
| | APRIL | 27 11 55 | 27 15 51 | | APRIL | 25 14 20 | 25 22 38 |
| | MAY . | 27 0 39 | 26 22 47 | | MAY . | 24 3 4 | 24 14 4 |
| | JUNE . | 25 13 23 | 25 5 55 | | JUNE . | 23 15 48 | 24 2 56 |
| | JULY . | 25 2 7 | 24 14 21 | | JULY . | 22 4 32 | 22 13 27 |
| | AUG. . | 23 14 51 | 23 1 7 | | ○ | { 6 22 54 | 6 12 2 |
| | SEPT. . | 22 3 35 | 21 14 51 | | JULY . | { 21 17 16 | 21 22 16 |
| | OCT. . | 21 16 19 | 21 7 34 | | AUG. . | 20 6 0 | 20 6 23 |
| | NOV. . | 20 5 3 | 20 2 26 | | SEPT. . | 18 18 44 | 18 14 43 |
| | DEC. . | 19 17 47 | 19 21 57 | | OCT. . | 18 7 23 | 18 0 13 |
| | | | | | NOV. . | 16 20 12 | 16 11 9 |
| | | | | | DEC. . | 16 8 56 | 15 23 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1127. B. March. d. h. m. 14 21 47 | | d. h. m. | d. h. m. | A.D. 1130. E. March. d. h. m. 14 15 14 | | d. h. m. | d. h. m. |
| | JAN. . | 14 21 41 | 14 14 11 | | JAN. . | 11 12 51 | 11 18 29 |
| | FEB. . | 13 10 25 | 13 5 58 | | FEB. . | 10 1 35 | 10 4 45 |
| | MAR. . | 14 23 9 | 14 22 38 | | MAR. . | 11 14 19 | 11 14 9 |
| | APRIL . | 13 11 53 | 13 15 21 | | APRIL . | 10 3 3 | 9 23 10 |
| | MAY . | 13 0 37 | 13 7 13 | | MAY . | 9 15 47 | 9 8 34 |
| | ○ | 27 18 59 | 27 14 32 | | JUNE . | 8 4 31 | 7 19 17 |
| | JUNE . | 11 13 21 | 11 21 30 | | JULY . | 7 17 15 | 7 7 54 |
| | JULY . | 11 2 5 | 11 9 57 | | AUG. . | 6 5 59 | 5 22 42 |
| | AUG. . | 9 14 49 | 9 20 49 | | SEPT. . | 4 18 43 | 4 15 13 |
| | SEPT. . | 8 3 33 | 8 6 43 | | OCT. . | 4 7 27 | 4 8 38 |
| | OCT. . | 7 16 17 | 7 16 24 | | NOV. . | 2 20 11 | 3 1 51 |
| | NOV. . | 6 5 1 | 6 2 28 | | DEC. . | 2 8 55 | 2 17 55 |
| | ○ | 20 23 23 | 21 0 6 | | { | 31 21 39 | ... |
| | DEC. . | 5 17 45 | 5 13 13 | | | | |
| 1128. A.G. 14 8 36 | JAN. . | 4 6 30 | 4 0 46 | 1131. D. 14 21 3 | JAN. . | { ... | 1 8 11 |
| | FEB. . | 2 19 14 | 2 13 6 | | FEB. . | { 30 10 23 | 30 20 22 |
| | MAR. . | 3 7 58 | 3 2 23 | | ○ | { 28 23 8 | { 1 6 36 |
| | APRIL . | 1 20 42 | 1 16 39 | | MAR. . | { 15 17 30 | { 15 20 6 |
| | MAY ○ | { 1 9 26 | 1 7 45 | | APRIL . | { 30 11 52 | { 30 15 13 |
| | { | 16 3 48 | 16 7 39 | | MAY . | 29 0 36 | 28 22 53 |
| | { | 30 22 10 | 30 23 13 | | JUNE . | 28 13 20 | 28 6 43 |
| | JUNE . | 20 10 54 | 20 14 27 | | JULY . | 27 2 4 | 26 15 33 |
| | JULY . | 28 23 38 | 29 4 51 | | AUG. . | 26 14 48 | 26 2 28 |
| | AUG. . | 27 12 22 | 27 13 7 | | ○ | { 25 3 32 | 24 16 4 |
| | SEPT. . | 26 1 6 | 26 6 20 | | SEPT. . | { 8 21 54 | 8 22 49 |
| | OCT. . | 25 13 50 | 25 17 51 | | { | 23 16 16 | 23 8 22 |
| | ○ | { 9 8 12 | 8 23 32 | | OCT. . | 23 5 0 | 23 2 36 |
| | NOV. . | { 24 2 34 | 24 4 59 | | NOV. . | 21 17 44 | 21 21 30 |
| | DEC. . | 23 15 18 | 23 15 53 | | DEC. . | 21 6 28 | 21 15 34 |
| 1129. F. 14 9 25 | JAN. . | 22 4 2 | 22 2 37 | 1132. C.B. 14 2 52 | JAN. . | 19 19 12 | 20 7 35 |
| | FEB. . | 20 16 46 | 20 13 15 | | FEB. . | 18 7 56 | 18 20 54 |
| | MAR. . | 22 5 30 | 22 0 10 | | ○ | { 4 2 18 | 3 21 42 |
| | APRIL . | 20 18 14 | 20 11 51 | | MAR. . | { 18 20 40 | 19 7 31 |
| | ○ | { 5 12 36 | 5 23 34 | | APRIL . | 17 9 24 | 17 15 58 |
| | MAY . | { 20 6 58 | 20 0 47 | | MAY . | 16 22 8 | 16 23 7 |
| | JUNE . | 18 19 42 | 18 15 5 | | JUNE . | 15 10 52 | 15 5 57 |
| | JULY . | 18 8 26 | 18 6 29 | | JULY . | 14 23 36 | 14 13 34 |
| | AUG. . | 16 21 10 | 16 22 21 | | AUG. . | { 13 12 20 | 12 23 5 |
| | SEPT. . | 15 9 54 | 15 13 58 | | ○ | { 23 6 42 | 23 12 22 |
| | OCT. . | { 14 22 38 | 15 4 48 | | SEPT. . | 12 1 4 | 11 11 21 |
| | ○ | { 29 17 0 | 29 4 12 | | OCT. . | 11 13 43 | 11 2 42 |
| | NOV. . | 18 11 22 | 18 18 32 | | NOV. . | 10 2 32 | 9 20 43 |
| | DEC. . | 18 0 6 | 18 7 6 | | DEC. . | 9 15 16 | 9 16 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|
| A.D. 1133. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1136. E.D. March. <i>d. h. m.</i> | | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 14 8 40 | JAN. . | 8 4 1 | 8 11 27 | 14 2 7 | JAN. . | 5 19 11 |
| | FEB. . | { 6 16 45 | 7 4 54 | | FEB. . | 4 7 55 |
| | ○ | { 21 11 7 | 21 6 3 | | MAR. . | 4 20 39 |
| | MAR. . | 8 5 29 | 8 19 30 | | APRIL | 3 9 23 |
| | APRIL | 6 18 13 | 7 7 2 | | MAY . | 2 22 7 |
| | MAY . | 6 6 57 | 6 15 58 | | JUNE ○ | { 1 10 51 |
| | JUNE . | 4 19 41 | 4 23 14 | | | { 16 5 13 |
| | JULY . | 4 8 25 | 4 5 53 | | | { 30 23 35 |
| | AUG. . | { 2 21 9 | { 2 13 2 | | JULY . | 30 12 19 |
| | ○ | { 17 15 31 | { 17 19 12 | | AUG. . | 29 1 3 |
| | SEPT. . | { 1 9 53 | { 31 21 45 | | SEPT. . | 27 13 47 |
| | | { 30 22 37 | 30 8 53 | | OCT. . | 27 2 31 |
| | OCT. . | 30 11 21 | 29 22 59 | | NOV. . | 25 15 15 |
| | NOV. . | 29 0 5 | 28 15 52 | | ○ | { 10 9 37 |
| | DEC. . | 28 12 49 | 28 10 39 | | DEC. . | { 25 3 59 |
| 1134. G. | JAN. . | 27 1 34 | 27 5 58 | 1137 C. | JAN. . | 23 16 44 |
| 14 14 29 | FEB. . | 25 14 18 | 26 0 7 | 14 7 56 | FEB. . | 22 5 28 |
| | MAR. . | 27 3 2 | 27 15 54 | | MAR. . | 23 18 12 |
| | APRIL | 25 15 46 | 26 4 43 | | APRIL | 22 6 56 |
| | MAY . | 25 4 30 | 25 14 46 | | MAY . | 21 19 40 |
| | JUNE . | 23 17 14 | 23 22 52 | | JUNE . | 20 8 24 |
| | JULY . | 23 5 58 | 23 6 6 | | JULY . | 19 21 8 |
| | AUG. . | 21 13 42 | 21 13 32 | | AUG. . | 18 9 52 |
| | SEPT. . | 20 7 26 | 19 22 5 | | SEPT. . | 16 22 36 |
| | OCT. . | 19 20 10 | 19 8 33 | | OCT. . | 16 11 20 |
| | NOV. . | 18 8 54 | 17 21 22 | | NOV. . | 15 0 4 |
| | DEC. . | 17 21 38 | 17 12 34 | | DEC. . | 14 12 48 |
| | ○ | { 1 16 0 | 2 1 7 | | | |
| 1135. F. | JAN. . | { 16 10 22 | 16 5 43 | 1138. B. | JAN. . | 13 1 32 |
| 14 20 18 | FEB. . | 14 23 6 | 14 23 50 | 14 13 45 | FEB. . | 11 14 16 |
| | MAR. . | 16 11 50 | 16 17 43 | | MAR. . | 13 3 0 |
| | APRIL | 15 0 34 | 15 10 7 | | APRIL | { 11 15 44 |
| | MAY . | 14 13 18 | 15 0 16 | | ○ | { 26 10 6 |
| | JUNE . | { 13 2 2 | 13 11 57 | | MAY . | 11 4 28 |
| | ○ | { 27 20 24 | 27 9 39 | | JUNE . | 9 17 12 |
| | JULY . | 12 14 46 | 12 21 37 | | JULY . | 9 5 56 |
| | AUG. . | 11 3 30 | 11 6 11 | | AUG. . | 7 18 40 |
| | SEPT. . | 9 16 14 | 9 14 32 | | SEPT. . | 6 7 24 |
| | OCT. . | 9 4 53 | 8 23 35 | | OCT. . | { 5 20 8 |
| | NOV. . | 7 17 42 | 7 9 51 | | ○ | { 20 14 30 |
| | DEC. . | { 7 6 26 | 6 21 39 | | NOV. . | 4 8 52 |
| | ○ | { 22 0 48 | 22 11 3 | | DEC. . | 3 21 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1139. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1142. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. <i>d. h. m.</i> 14 19 33 | JAN. . | { 2 10 21 31 23 5 | 2 17 23 | March. <i>d. h. m.</i> 14 13 0 | JAN. . | 28 14 15 | 29 0 26 |
| | FEB. . | ... | 1 4 7 | ○ | FEB. . | { 12 8 37 27 2 59 | 12 4 28 27 16 30 |
| | MAR. . | 2 11 49 | { 2 13 44 31 22 36 | MAR. . | MAR. . | 28 15 43 | 29 5 28 |
| | APRIL . | { 1 0 33 15 18 55 30 13 17 | 16 6 39 30 7 29 | APRIL . | APRIL . | 27 4 27 | 27 15 33 |
| | MAY . | 30 2 1 | 29 17 14 | MAY . | MAY . | 26 17 11 | 26 23 23 |
| | JUNE . | 28 14 45 | 28 4 42 | JUNE . | JUNE . | 25 5 55 | 25 6 17 |
| | JULY . | 28 3 29 | 27 18 24 | JULY . | JULY . | 24 18 39 | 24 13 7 |
| | AUG. . | 26 16 13 | 26 10 15 | ○ | ○ | { 8 13 1 23 7 23 | 8 15 5 22 21 1 |
| | SEPT. . | 25 4 57 | 25 3 32 | SEPT. . | SEPT. . | 21 20 7 | 21 6 53 |
| | ○ | { 9 23 19 24 17 41 | 9 15 14 | OCT. . | OCT. . | 21 8 51 | 20 19 37 |
| | OCT. . | 24 17 41 | 24 21 14 | NOV. . | NOV. . | 19 21 35 | 19 11 11 |
| | NOV. . | 23 6 25 | 23 14 13 | DEC. . | DEC. . | 19 10 19 | 19 5 8 |
| | DEC. . | 22 19 9 | 23 5 36 | 1143. | JAN. . | 17 23 3 | 18 0 16 |
| | | | | C. | ○ | { 1 17 25 16 11 47 | 1 19 39 16 19 4 |
| 1140. | JAN. . | 21 7 53 | 21 18 51 | 14 18 49 | FEB. . | 18 0 31 | 18 12 2 |
| G.F. | FEB. . | 19 20 37 | 20 5 55 | | MAR. . | 16 13 15 | 17 2 16 |
| 14 1 22 | MAR. . | 20 9 21 | 20 15 7 | | APRIL . | 16 1 59 | 16 13 37 |
| | ○ | { 4 3 43 18 22 5 | 4 8 7 18 23 2 | | MAY . | 14 14 43 | 14 22 37 |
| | APRIL . | 18 10 49 | 18 6 29 | | JUNE . | { 14 3 27 28 21 49 | 14 6 15 28 15 33 |
| | MAY . | 16 23 33 | 16 14 32 | | ○ | 12 16 11 | 12 13 35 |
| | JUNE . | 16 12 17 | 16 0 13 | | AUG. . | 11 4 55 | 10 21 38 |
| | JULY . | 15 1 1 | 14 12 27 | | SEPT. . | 10 17 39 | 10 7 14 |
| | AUG. . | { 13 13 45 23 8 7 | 13 3 31 23 7 31 | | OCT. . | 9 6 23 | 8 18 54 |
| | SEPT. . | 13 2 29 | 12 21 3 | | NOV. . | 3 19 7 | 3 8 55 |
| | ○ | 11 15 13 | 11 15 59 | 1144. | JAN. . | { 7 7 52 22 2 14 | 7 1 4 22 11 20 |
| | OCT. . | 11 3 57 | 11 10 47 | B.A. | ○ | 5 20 36 | 5 18 37 |
| 1141. | JAN. . | 9 16 42 | 10 4 2 | 11 0 38 | FEB. . | 6 9 20 | 6 12 32 |
| E. | FEB. . | 8 5 26 | 8 18 44 | | MAR. . | 4 22 4 | 5 5 38 |
| 14 7 11 | MAR. . | 9 18 10 | 10 6 34 | | APRIL . | 4 10 48 | 4 20 54 |
| | APRIL . | 8 6 54 | 8 15 54 | | MAY . | 2 23 32 | 3 9 50 |
| | MAY . | 7 19 38 | 7 23 27 | | JUNE . | { 2 12 16 17 6 33 | 2 20 34 16 18 56 |
| | JUNE . | 6 8 22 | 6 6 14 | | ○ | 1 1 0 | 1 5 44 |
| | JULY . | 5 21 6 | 5 13 17 | | AUG. . | { 30 13 44 29 2 28 | 30 14 17 28 23 7 |
| | AUG. . | 4 9 50 | 3 21 44 | | SEPT. . | 28 15 12 | 28 8 53 |
| | SEPT. . | 2 22 34 | 2 8 36 | | OCT. . | 27 3 56 | 26 19 58 |
| | OCT. . | 2 11 18 | { 1 22 29 31 15 21 | | NOV. . | 26 16 40 | 26 8 30 |
| | NOV. . | { 1 0 2 30 12 46 | 30 10 21 | | DEC. . | | |
| | DEC. . | 30 1 30 | 30 5 55 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1145. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1148. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. March. <i>d. h. m.</i> 14 6 26 | JAN. . | 25 5 25 | 24 22 29 | D.C. March. <i>d. h. m.</i> 13 23 53 | JAN. . | 22 20 35 | 23 3 18 |
| | FEB. . | 23 18 9 | 23 13 44 | | FEB. . | 21 9 19 | 21 13 17 |
| | MAR. . | 25 6 53 | 25 5 48 | | MAR. . | 21 22 3 | 21 22 16 |
| | APRIL | 23 19 37 | 23 22 6 | | APRIL | 20 10 47 | 20 6 48 |
| | MAY . | 23 8 21 | 23 13 45 | | MAY . | 19 23 31 | 19 15 48 |
| | ○ | { 7 2 43 | 6 21 56 | | JUNE . | 18 12 15 | 18 2 9 |
| | JUNE . | { 21 21 5 | 22 4 9 | | JULY . | 18 0 59 | 17 11 30 |
| | JULY . | 21 9 49 | 21 16 58 | | AUG. . | 16 18 43 | 16 5 30 |
| | AUG. . | 19 22 33 | 20 4 18 | | SEPT. . | 15 2 27 | 14 22 21 |
| | SEPT. . | 18 11 17 | 18 14 45 | | OCT. . | 14 15 11 | 14 16 12 |
| | OCT. . | 18 0 1 | 18 0 55 | | NOV. . | 13 8 55 | 13 9 55 |
| | NOV. . | 16 12 45 | 16 11 19 | | DEC. . | 12 16 39 | 13 2 22 |
| | ○ | { 1 7 7 | 1 8 2 | | | | |
| | DEC. . | { 16 1 29 | 15 22 10 | | | | |
| 1146. | JAN. . | 14 14 13 | 14 9 31 | 1149. | JAN. . | 11 5 23 | 11 16 49 |
| F. | FEB. . | 13 2 57 | 12 21 25 | B. | FEB. . | 9 18 7 | 10 4 54 |
| 14 12 15 | MAR. . | 14 15 41 | 14 10 5 | 14 5 42 | MAR. . | { 11 6 51 | 11 11 51 |
| | APRIL | 13 4 25 | 12 23 44 | | ○ | { 26 1 13 | 26 8 10 |
| | MAY . | { 12 17 9 | 12 14 21 | | APRIL | 9 19 35 | 9 23 8 |
| | ○ | { 27 11 31 | 27 15 8 | | MAY . | 9 8 19 | 9 6 31 |
| | JUNE . | 11 5 53 | 11 5 38 | | JUNE . | 7 21 3 | 7 14 1 |
| | JULY . | 10 18 37 | 10 20 58 | | JULY . | 7 9 47 | 6 22 42 |
| | AUG. . | 9 7 21 | 9 11 45 | | AUG. . | 5 22 31 | 5 9 33 |
| | SEPT. . | 7 20 5 | 8 1 36 | | SEPT. . | { 4 11 15 | 3 23 15 |
| | OCT. . | 7 8 49 | 7 14 26 | | ○ | { 19 5 37 | 19 6 57 |
| | NOV. . | { 5 21 33 | 6 2 23 | | OCT. . | 3 23 59 | 3 15 45 |
| | ○ | { 20 15 55 | 20 7 32 | | NOV. . | 2 12 43 | 2 10 18 |
| | DEC. . | 5 10 17 | 5 13 54 | | DEC. . | { 2 1 27 | 2 5 30 |
| | | | | | | { 31 14 11 | 31 23 45 |
| 1147. | JAN. . | 3 23 2 | 4 0 50 | 1150. | JAN. . | 30 2 55 | 30 15 50 |
| E. | FEB. . | 2 11 46 | 2 11 19 | A. | FEB. . | 28 15 40 | { 1 5 3 |
| 14 18 4 | MAR. . | 4 0 30 | 3 21 31 | | ○ | { 15 10 2 | { 15 5 15 |
| | APRIL | 2 13 14 | 2 7 51 | | MAR. . | { 30 4 24 | 30 15 27 |
| | | 2 1 58 | 1 18 59 | | APRIL | 28 17 8 | 28 23 40 |
| | MAY ○ | { 16 20 20 | 17 6 55 | 14 11 31 | MAY . | 28 5 52 | 28 6 37 |
| | | { 31 14 42 | 31 7 23 | | JUNE . | 26 18 36 | 26 18 21 |
| | JUNE . | 30 3 26 | 29 21 35 | | JULY . | 26 7 20 | 25 20 59 |
| | JULY . | 29 16 10 | 29 13 6 | | AUG. . | 24 20 4 | 24 6 36 |
| | AUG. . | 28 4 54 | 28 5 20 | | ○ | { 8 14 26 | 8 20 1 |
| | SEPT. . | 26 17 38 | 26 21 29 | | SEPT. . | { 23 8 48 | 23 19 0 |
| | OCT. . | 26 6 22 | 26 12 55 | | OCT. . | 22 21 32 | 22 10 30 |
| | ○ | { 10 0 44 | 9 12 34 | | NOV. . | 21 10 16 | 21 4 39 |
| | NOV. . | { 24 19 6 | 25 3 9 | | DEC. . | 20 23 0 | 21 0 9 |
| | DEC. . | 24 7 50 | 24 15 57 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1151. C. | | d. h. m. | d. h. m. | A.D. 1154. C. | | d. h. m. | d. h. m. |
| | JAN. . | 19 11 35 | 19 19 21 | | ○ | { 1 8 32 | 1 19 26 |
| | FEB. . | 18 0 29 | 18 12 41 | | JAN. . | { 16 2 54 | 15 19 33 |
| March. | | 4 18 51 | 4 14 11 | March. | FEB. . | 14 15 38 | 14 9 56 |
| d. h. m. | MAR. . | 19 13 13 | 20 8 13 | d. h. m. | MAR. . | 16 4 22 | 16 1 22 |
| 14 17 19 | APRIL. | 18 1 57 | 18 11 36 | | APRIL. | 14 17 6 | 14 17 22 |
| | MAY. . | 17 14 41 | 17 23 26 | | MAY. . | 14 5 50 | 14 9 19 |
| | JUNE. . | 16 8 25 | 16 6 49 | | JUNE. . | { 12 18 34 | 13 0 25 |
| | JULY. . | 15 16 9 | 15 13 23 | | ○ | { 27 12 56 | 27 5 15 |
| | AUG. . | 14 4 53 | 13 20 43 | | JULY. . | 12 7 18 | 12 14 10 |
| | ○ | { 28 23 15 | 29 2 17 | | AUG. . | 10 20 2 | 11 2 24 |
| | SEPT. . | 12 17 37 | 12 5 40 | | SEPT. . | 9 8 46 | 9 18 30 |
| | OCT. . | 12 6 21 | 11 17 1 | | OCT. . | 8 21 30 | 9 0 1 |
| | NOV. . | 10 19 5 | 10 7 11 | | NOV. . | 7 10 14 | 7 10 28 |
| | DEC. . | 10 7 49 | 10 0 0 | | DEC. . | { 6 22 58 | 6 21 10 |
| | | | | | ○ | { 21 17 20 | 21 21 44 |
| 1152. | JAN. . | 8 20 33 | 8 18 37 | 1155. | JAN. . | 5 11 43 | 5 8 12 |
| FEB. . | FEB. . | 7 9 17 | 7 13 39 | 11. | FEB. . | 4 0 27 | 3 19 37 |
| 13 23 8 | MAR. . | 7 22 1 | 8 7 32 | 11 16 35 | MAR. . | 5 13 11 | 5 7 37 |
| | APRIL. | 6 10 45 | 6 23 7 | | APRIL. | 4 1 55 | 3 20 27 |
| | MAY. . | 5 23 29 | 6 11 51 | | MAY. . | 3 14 39 | 3 10 20 |
| | JUNE. . | 4 12 13 | 4 21 58 | | JUNE. . | { 2 8 28 | 2 1 11 |
| | JULY. . | 4 0 57 | 4 6 11 | | ○ | { 16 21 45 | 16 22 10 |
| | AUG. . | 2 13 41 | 2 13 42 | | JULY. . | { 1 16 7 | 1 16 35 |
| | SEPT. . | { 1 2 2. | 31 21 27 | | ○ | { 31 4 51 | 31 7 51 |
| | ○ | { 30 15 9 | 30 6 22 | | AUG. . | 29 17 35 | 29 22 26 |
| | OCT. . | 30 8 53 | 29 17 4 | | SEPT. . | 28 6 19 | 28 12 5 |
| | NOV. . | 28 16 37 | 28 5 55 | | OCT. . | 27 19 8 | 28 0 47 |
| | DEC. . | 28 5 21 | 27 29 55 | | NOV. . | 26 7 47 | 26 12 40 |
| | ○ | { 11 23 43 | 12 9 49 | | DEC. . | 25 20 31 | 25 23 54 |
| 1153. | JAN. . | 26 18 5 | 26 13 41 | 1156. | JAN. . | 24 9 15 | 24 10 31 |
| D. | FEB. . | 25 6 49 | 25 7 20 | Aug. | FEB. . | 22 22 0 | 22 20 38 |
| 14 4 57 | MAR. . | 26 19 34 | 27 0 48 | 18 22 24 | MAR. . | 23 10 44 | 23 6 31 |
| | APRIL. | 25 8 18 | 25 16 57 | | APRIL. | 21 23 28 | 21 16 57 |
| | MAY. . | 24 21 2 | 25 7 4 | | ○ | { 6 17 50 | 7 5 52 |
| | JUNE. . | 23 9 46 | 23 18 55 | | MAY. . | { 21 12 12 | 21 4 28 |
| | ○ | { 8 4 8 | 7 16 38 | | JUNE. . | 20 0 56 | 19 17 38 |
| | JULY. . | { 22 22 30 | 23 4 57 | | JULY. . | 19 13 40 | 19 8 30 |
| | AUG. . | 21 11 14 | 21 13 54 | | AUG. . | 18 2 24 | 18 0 35 |
| | SEPT. . | 19 23 58 | 19 22 41 | | SEPT. . | 16 15 8 | 16 17 7 |
| | OCT. . | 19 12 42 | 19 8 10 | | ○ | { 16 8 52 | 16 9 17 |
| | NOV. . | 18 1 26 | 17 13 40 | | ○ | { 30 22 14 | 30 10 8 |
| | DEC. . | 17 14 10 | 17 6 26 | | NOV. . | 14 16 36 | 15 0 23 |
| | | | | | DEC. . | 14 5 20 | 14 14 7 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1157. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1160. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. March. | JAN. . | 12 18 4 | 13 2 12 | C.B. | JAN. . | 10 9 14 | 10 18 53 |
| <i>d. h. m.</i> | FEB. . | 11 6 48 | 11 12 44 | March. | FEB. . | { 8 21 58 | 9 8 16 |
| 14 4 12 | MAR. . | 12 19 32 | 12 21 58 | <i>d. h. m.</i> | ○ | { 23 16 20 | 23 12 48 |
| | APRIL { | 11 8 16 | 11 6 25 | 13 21 39 | MAR. . | 9 10 42 | 10 0 10 |
| | ○ | { 26 2 38 | 26 13 35 | | APRIL | 7 23 26 | 8 13 0 |
| | MAY . | 10 21 0 | 10 14 51 | | MAY . | 7 12 10 | 7 22 58 |
| | JUNE . | 9 9 44 | 9 0 14 | | JUNE . | 6 0 54 | 6 6 52 |
| | JULY . | 8 22 28 | 8 11 32 | | JULY . | 5 13 38 | 5 13 44 |
| | AUG. . | 7 11 12 | 7 1 12 | | AUG. . | { 4 2 22 | 3 20 44 |
| | SEPT. . | 5 23 56 | 5 17 15 | | ○ | { 18 20 44 | 18 21 56 |
| | OCT. . | { 5 12 40 | 5 10 55 | | SEPT. . | 2 15 6 | 2 4 53 |
| | ○ | { 20 7 2 | 19 23 47 | | OCT. . | { 2 3 50 | 1 15 4 |
| | NOV. . | 4 1 24 | 4 5 6 | | NOV. . | { 31 16 31 | 31 8 52 |
| | DEC. . | 3 14 8 | 3 22 29 | | DEC. . | 30 5 18 | 29 19 25 |
| | | | | | | 29 18 2 | 29 18 11 |
| 1158. | JAN. . | { 2 2 52 | 2 14 8 | 1161. | JAN. . | 28 6 47 | 23 8 3 |
| E. | FEB. . | { 31 15 36 | ... | A. | ○ | { 12 1 9 | 12 4 19 |
| 14 10 1 | MAR. . | { 2 4 21 | 2 14 16 | 14 3 28 | FEB. . | { 26 19 31 | 27 2 32 |
| | ○ | { 31 17 5 | 31 23 9 | | MAR. . | 28 8 15 | 28 19 15 |
| | APRIL { | 15 11 27 | 15 14 57 | | APRIL | 26 20 59 | 27 9 23 |
| | MAY . | 30 5 49 | 30 6 43 | | MAY . | 26 9 48 | 26 20 45 |
| | JUNE . | 29 18 33 | 29 13 54 | | JUNE . | 24 22 27 | 25 5 53 |
| | JULY . | 28 7 17 | 27 21 44 | | JULY . | 24 11 11 | 24 13 46 |
| | AUG. . | 27 20 1 | 27 7 23 | | ○ | { 8 5 33 | 7 22 17 |
| | SEPT. . | 26 8 45 | 25 19 39 | | AUG. . | { 22 23 55 | 22 21 23 |
| | ○ | { 24 21 29 | 24 10 54 | | SEPT. . | 21 12 39 | 21 5 51 |
| | OCT. . | { 9 15 51 | 9 15 57 | | OCT. . | 21 1 23 | 20 15 44 |
| | NOV. . | { 24 10 13 | 24 4 41 | | NOV. . | 19 14 7 | 19 8 32 |
| | DEC. . | 22 22 57 | 22 23 53 | | DEC. . | 19 2 51 | 18 17 25 |
| | | 22 11 41 | 22 18 55 | 1162. | JAN. . | 17 15 33 | 17 9 18 |
| 1159. | JAN. . | 21 0 23 | 21 12 14 | G. | ○ | { 1 9 58 | 1 19 59 |
| D. | FEB. . | 19 13 10 | 20 2 52 | 14 9 17 | FEB. . | { 16 4 20 | 16 2 17 |
| 14 15 50 | MAR. . | 21 1 54 | 21 14 32 | | MAR. . | 17 17 4 | 17 19 45 |
| | APRIL | 19 14 33 | 19 23 33 | | APRIL | 16 5 48 | 16 12 30 |
| | MAY . | 19 3 22 | 19 7 0 | | MAY . | 15 18 32 | 16 3 39 |
| | JUNE . | 17 16 6 | 17 13 39 | | JUNE . | 14 7 16 | 14 16 41 |
| | JULY . | 17 4 50 | 16 20 43 | | JULY . | { 13 20 0 | 14 3 42 |
| | AUG. . | 15 17 34 | 15 5 16 | | ○ | { 28 14 22 | 28 1 57 |
| | SEPT. . | 14 6 18 | 13 16 16 | | AUG. . | 12 8 44 | 12 13 17 |
| | OCT. . | 13 19 2 | 13 6 19 | | SEPT. . | 10 21 23 | 10 22 19 |
| | NOV. . | 12 7 46 | 11 23 17 | | OCT. . | 10 10 12 | 10 7 35 |
| | DEC. . | 11 20 30 | 11 18 20 | | NOV. . | 8 22 56 | 8 17 40 |
| | | | | | DEC. . | 8 11 40 | 8 4 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1163. F. March. d. h. m. 14 15 5 | JAN. . | d. h. m. 7 0 24 | d. h. m. 6 17 9 | A.D. 1166. B. March. d. h. m. 14 8 32 | JAN. . | d. h. m. 3 15 34 | d. h. m. 4 0 45 |
| | FEB. . | 5 13 8 | 5 6 41 | | FEB. . | 2 4 18 | 2 12 0 |
| | MAR. . | 7 1 52 | 6 21 20 | | MAR. . | 3 17 2 | 3 21 40 |
| | APRIL | 5 14 36 | 5 12 51 | | APRIL | 2 5 46 | 2 6 14 |
| | MAY . | 5 3 20 | 5 4 43 | | MAY . | { 1 18 30 31 7 14 | 1 14 21 30 22 57 |
| | JUNE . | { 3 16 4 18 10 26 | 3 20 15 18 5 18 | | JUNE . | 29 19 58 | 29 9 5 |
| | JULY . | 3 4 48 | 3 10 49 | | JULY . | 29 8 42 | 28 21 29 |
| | AUG. . | { 1 17 32 31 6 16 | 1 23 59 31 11 52 | | AUG. . | 27 21 26 | 27 12 27 |
| | SEPT. . | 29 19 0 | 29 22 53 | | SEPT. . | 26 10 10 | 26 5 35 |
| | OCT. . | 29 7 44 | 29 9 33 | | OCT. . | 25 22 54 | 25 23 54 |
| | NOV. . | 27 20 28 | 27 20 15 | | NOV. . | 24 11 38 | 24 18 3 |
| | ○ | { 12 14 50 27 9 12 | 12 16 0 27 7 6 | 1167. A. 14 14 21 | DEC. . | 24 0 22 | 24 10 47 |
| | DEC. . | | | | JAN. . | 22 13 6 | 23 1 18 |
| 1164. E.D. 13 20 51 | JAN. . | 25 21 56 | 25 18 11 | | FEB. . | 21 1 50 | 21 13 17 |
| | FEB. . | 24 10 41 | 24 5 38 | | MAR. . | 22 14 35 | 22 22 58 |
| | MAR. . | 24 23 25 | 24 17 42 | | ○ | { 6 8 57 21 3 19 | 6 10 8 21 6 56 |
| | APRIL | 23 12 9 | 23 6 45 | | APRIL | 20 16 3 | 20 14 2 |
| | MAY . | 23 0 53 | 22 20 58 | | MAY . | 19 4 47 | 18 21 18 |
| | ○ | { 6 19 15 21 13 37 | 6 22 34 21 12 5 | | JUNE . | 18 17 31 | 18 5 53 |
| | JUNE . | 21 2 21 | 21 3 34 | | JULY . | 17 6 15 | 16 16 47 |
| | AUG. . | 19 15 5 | 19 18 46 | | AUG. . | { 15 18 59 30 13 21 | 15 6 36 30 15 15 |
| | SEPT. . | 18 3 49 | 18 9 12 | | ○ | 15 7 43 | 14 23 20 |
| | OCT. . | 17 16 33 | 17 22 39 | | OCT. . | 13 20 27 | 13 18 7 |
| | NOV. . | { 16 5 17 30 23 39 | 16 11 10 30 15 38 | | NOV. . | 13 9 11 | 13 18 33 |
| | ○ | | | 1168. G.F. 13 20 10 | DEC. . | | |
| | DEC. . | 15 18 1 | 15 22 50 | | JAN. . | 11 21 55 | 12 7 56 |
| 1165. C. 14 2 48 | JAN. . | 14 6 45 | 14 9 43 | | FEB. . | 10 10 39 | 10 23 57 |
| | FEB. . | 12 19 29 | 12 19 54 | | MAR. . | { 10 23 23 25 17 45 | 11 13 1 25 12 40 |
| | MAR. . | 14 8 14 | 14 5 38 | | ○ | 9 12 7 | 9 23 13 |
| | APRIL | 12 20 58 | 12 15 26 | | APRIL | 9 0 51 | 9 7 15 |
| | MAY . | { 12 9 42 27 4 4 | 12 2 4 27 14 10 | | MAY . | 7 13 35 | 7 14 4 |
| | ○ | | | | JUNE . | 7 2 19 | 6 20 46 |
| | JUNE . | 10 22 26 | 10 14 11 | | JULY . | 5 15 3 | 5 4 30 |
| | JULY . | 10 11 10 | 10 4 9 | | AUG. . | { 4 3 47 18 22 9 | 3 14 15 19 3 47 |
| | AUG. . | 8 23 54 | 8 19 47 | | ○ | 3 16 31 | 3 2 49 |
| | SEPT. . | 7 12 38 | 7 12 23 | | OCT. . | 2 5 15 | 1 13 27 |
| | OCT. . | 7 1 22 | 7 5 8 | | NOV. . | { 1 17 59 31 6 43 | 1 12 38 31 8 6 |
| | NOV. . | { 5 14 6 20 8 28 | 5 21 7 19 21 3 | | DEC. . | | |
| | ○ | | | | | | |
| | DEC. . | 5 2 50 | 5 11 47 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1169. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1172. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 14 1 58 | JAN. . | 29 19 27 | 30 3 12 | March. <i>d. h. m.</i> 13 19 25 | ○ | { 12 16 16 | 13 3 45 |
| | FEB. . | 28 8 12 | 28 20 25 | | JAN. . | { 27 10 38 | 27 3 59 |
| | ○ | { 15 2 34 | 14 22 11 | | FEB. . | 25 23 22 | 25 17 48 |
| | MAR. . | { 29 20 56 | 30 10 43 | | MAR. . | 26 12 6 | 26 8 37 |
| | APRIL . | 28 9 40 | 28 22 0 | | APRIL . | 25 0 50 | 25 0 9 |
| | MAY . | 27 22 24 | 28 6 57 | | MAY . | 24 18 31 | 24 15 49 |
| | JUNE . | 26 11 8 | 26 14 5 | | JUNE . | 23 2 18 | 23 6 57 |
| | JULY . | 25 23 52 | 25 20 58 | | ○ | { 7 20 40 | 7 12 39 |
| | AUG. . | 24 12 36 | 24 4 32 | | JULY . | { 22 15 2 | 22 20 59 |
| | ○ | { 8 6 58 | 8 9 28 | | AUG. . | 21 3 46 | 21 9 45 |
| | SEPT. . | { 23 1 20 | 22 13 45 | | SEPT. . | 19 16 30 | 19 21 26 |
| | OCT. . | 22 14 4 | 22 1 17 | | OCT. . | 19 5 14 | 19 8 30 |
| | NOV. . | 21 2 48 | 20 15 29 | | NOV. . | 17 17 58 | 17 19 18 |
| | DEC. . | 20 15 32 | 20 8 11 | | DEC. . | 17 6 42 | 17 6 8 |
| 1170. D. | JAN. . | 19 4 17 | 19 2 31 | 1173. G. | ○ | { 1 1 4 | 1 5 44 |
| 14 7 47 | FEB. . | 17 17 1 | 17 21 12 | | JAN. . | { 15 19 26 | 15 17 11 |
| | MAR. . | 19 5 45 | 19 14 48 | 14 1 14 | FEB. . | 14 8 11 | 14 4 3 |
| | APRIL . | 17 18 29 | 18 6 11 | | MAR. . | 15 20 55 | 15 15 28 |
| | MAY . | 17 7 13 | 17 18 54 | | APRIL . | 14 9 39 | 14 3 42 |
| | JUNE . | 15 19 57 | 16 5 7 | | MAY . | 13 22 23 | 13 17 6 |
| | JULY . | 15 8 41 | 15 13 37 | | JUNE . | { 12 11 7 | 12 7 40 |
| | AUG. . | 13 21 25 | 13 21 26 | | ○ | { 27 5 29 | 27 5 38 |
| | SEPT. . | 12 10 9 | 12 5 33 | | JULY . | 11 23 51 | 11 23 4 |
| | OCT. . | 11 22 53 | 11 14 48 | | AUG. . | 10 12 35 | 10 14 39 |
| | NOV. . | 10 11 37 | 10 1 42 | | SEPT. . | 9 1 19 | 9 5 47 |
| | DEC. . | 10 0 21 | 9 14 32 | | OCT. . | 8 14 3 | 8 20 2 |
| 1171. C. | JAN. . | { 8 13 5 | 8 5 17 | 1174. F. | NOV. . | 7 2 47 | 7 9 17 |
| 14 13 36 | ○ | { 23 7 27 | 23 18 29 | | DEC. . | 6 15 31 | 6 21 32 |
| | FEB. . | 7 1 49 | 6 21 34 | | JAN. . | 5 4 15 | 5 8 50 |
| | MAR. . | 8 14 33 | 8 14 41 | 14 7 3 | FEB. . | 3 16 59 | 3 19 15 |
| | APRIL . | 7 3 17 | 7 7 42 | | MAR. . | 5 5 43 | 5 4 56 |
| | MAY . | 6 16 1 | 6 23 39 | | APRIL . | 3 18 27 | 3 14 21 |
| | JUNE . | 5 4 45 | 5 13 48 | | MAY . | { 3 7 11 | 3 0 12 |
| | JULY . | { 4 17 29 | 5 1 54 | | ○ | { 18 1 33 | 18 18 3 |
| | ○ | { 19 11 51 | 18 23 40 | | JUNE . | 1 19 55 | 1 11 20 |
| | AUG. . | 3 6 13 | 3 12 18 | | JULY . | { 1 8 39 | 1 0 14 |
| | SEPT. . | 1 18 57 | 1 21 45 | | ○ | { 30 21 23 | 30 15 6 |
| | OCT. . | { 1 7 41 | 1 7 3 | | AUG. . | 29 10 7 | 29 7 28 |
| | NOV. . | { 30 20 25 | 30 16 51 | | SEPT. . | 27 22 51 | 28 0 30 |
| | DEC. . | 23 21 53 | 23 15 14 | | OCT. . | 27 11 35 | 27 17 15 |
| | | | | | ○ | { 11 5 57 | 10 18 38 |
| | | | | | NOV. . | { 26 0 19 | 26 8 52 |
| | | | | | DEC. . | 25 13 8 | 25 22 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1175. E. March. d. h. m. 14 12 51 | | d. h. m. | d. h. m. | A.D. 1178. A. March. d. h. m. 14 6 18 | | d. h. m. | d. h. m. |
| | JAN. . | 24 1 48 | 24 10 57 | | JAN. . | 20 16 58 | 20 21 44 |
| | FEB. . | 22 14 32 | 22 21 15 | | FEB. . | 19 5 42 | 19 15 57 |
| | MAR. . | 24 8 16 | 24 6 7 | | ○ | 6 0 4 | 5 21 2 |
| | APRIL | 22 16 0 | 22 14 8 | | MAR. . | 20 18 26 | 21 7 41 |
| | ○ | 7 10 22 | 7 20 27 | | APRIL | 19 7 10 | 19 20 24 |
| | MAY . | 22 4 44 | 21 22 10 | | MAY . | 18 19 54 | 19 6 18 |
| | JUNE . | 20 17 28 | 20 7 17 | | JUNE . | 17 8 38 | 17 14 14 |
| | JULY . | 20 6 12 | 19 18 25 | | JULY . | 16 21 22 | 16 21 16 |
| | AUG. . | 18 18 56 | 18 8 9 | | AUG. . | 15 10 6 | 15 4 30 |
| | SEPT. . | 17 7 40 | 17 0 24 | | ○ | 30 4 28 | 30 4 55 |
| | OCT. . | 16 20 24 | 16 18 27 | | SEPT. . | 13 22 50 | 13 12 55 |
| | ○ | 31 14 46 | 31 8 27 | | OCT. . | 13 11 34 | 12 23 20 |
| | NOV. . | 15 9 8 | 15 13 4 | | NOV. . | 12 0 18 | 11 12 15 |
| | DEC. . | 14 21 52 | 15 6 49 | | DEC. . | 11 13 2 | 11 3 43 |
| 1176. D.C. 13 18 40 | JAN. . | 13 10 37 | 13 22 36 | 1179. G. 14 12 7 | JAN. . | 10 1 46 | 9 21 14 |
| | FEB. . | 11 23 21 | 12 11 49 | | FEB. . | 8 14 30 | 8 15 43 |
| | MAR. . | 12 12 5 | 12 22 28 | | ○ | 23 8 52 | 23 12 43 |
| | APRIL | 11 0 49 | 11 7 3 | | MAR. . | 10 3 14 | 10 9 50 |
| | ○ | 25 19 11 | 25 21 41 | | APRIL | 8 15 58 | 9 2 19 |
| | MAY . | 10 13 33 | 10 14 18 | | MAY . | 8 4 42 | 8 16 21 |
| | JUNE . | 9 2 17 | 8 21 17 | | JUNE . | 6 17 26 | 7 3 47 |
| | JULY . | 8 15 1 | 8 5 2 | | JULY . | 6 6 10 | 6 13 9 |
| | AUG. . | 7 3 45 | 6 14 39 | | AUG. . | 4 18 54 | 4 21 21 |
| | SEPT. . | 5 16 29 | 5 3 1 | | ○ | 19 13 16 | 19 5 5 |
| | OCT. . | 5 5 13 | 4 13 25 | | SEPT. . | 3 7 38 | 3 5 23 |
| | ○ | 19 23 35 | 20 0 29 | | OCT. . | 2 20 22 | 2 14 11 |
| | NOV. . | 3 17 57 | 3 12 27 | | NOV. . | 1 9 6 | 1 0 20 |
| | DEC. . | 3 6 41 | 3 7 51 | | DEC. . | 30 21 50 | 30 12 13 |
| 1177. B. 14 0 29 | JAN. . | 1 19 25 | 2 2 59 | 1180. F.E. 13 17 56 | JAN. . | 28 23 18 | 28 17 17 |
| | FEB. . | 31 8 9 | 31 20 19 | | ○ | 12 17 40 | 13 4 28 |
| | MAR. . | 1 20 53 | 2 10 50 | | FEB. . | 27 12 2 | 27 9 49 |
| | APRIL | 29 22 21 | 30 7 14 | | MAR. . | 28 0 47 | 28 2 48 |
| | MAY . | 29 11 5 | 29 14 28 | | APRIL | 26 13 31 | 26 19 15 |
| | JUNE . | 27 23 49 | 27 21 5 | | MAY . | 26 2 15 | 26 10 18 |
| | JULY . | 27 12 33 | 27 4 14 | | JUNE . | 24 14 59 | 24 23 29 |
| | AUG. . | 26 1 17 | 25 12 54 | | JULY . | 24 3 43 | 24 10 52 |
| | SEPT. . | 24 14 1 | 24 0 5 | | ○ | 7 22 5 | 7 9 3 |
| | OCT. . | 24 2 45 | 23 14 16 | | AUG. . | 22 16 27 | 22 20 55 |
| | NOV. . | 22 15 29 | 22 7 18 | | SEPT. . | 21 5 11 | 21 6 28 |
| | DEC. . | 22 4 13 | 22 2 18 | | OCT. . | 20 17 55 | 20 16 9 |
| | | | | | NOV. . | 19 6 39 | 19 2 30 |
| | | | | | DEC. . | 18 19 23 | 18 13 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1181. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1184. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 17 8 8 | 17 1 47 | A.G. | JAN. . | 14 23 18 | 15 9 30 |
| March. | FEB. . | 15 20 52 | 15 14 49 | March. | FEB. . | 13 12 2 | 13 20 35 |
| <i>d. h. m.</i> | MAR. . | 17 9 36 | 17 4 50 | <i>d. h. m.</i> | MAR. . | 14 0 46 | 14 5 57 |
| 13 23 41 | APRIL | 15 22 20 | 15 19 48 | 13 17 11 | APRIL | 12 13 30 | 12 14 5 |
| | MAY . | 15 11 4 | 15 11 17 | | MAY . | 12 2 14 | 11 21 49 |
| | JUNE . | 13 23 43 | 14 2 44 | | JUNE . | 10 14 58 | 10 6 8 |
| | JULY . | 13 12 32 | 13 17 28 | | JULY . | 10 3 42 | 9 16 4 |
| | AUG. . | 12 1 16 | 12 7 6 | | AUG. . | 8 16 26 | 8 4 26 |
| | SEPT. . | 10 14 0 | 10 19 34 | | SEPT. . | 7 5 10 | 6 19 34 |
| | OCT. . | 10 2 44 | 10 7 9 | | OCT. . | 6 17 54 | 6 13 0 |
| | NOV. . | 8 15 23 | 8 18 16 | | NOV. . | 5 6 38 | 5 7 41 |
| | DEC. . | 8 4 12 | 8 5 13 | | DEC. . | 4 19 22 | 5 2 12 |
| | O | 22 22 34 | 22 23 58 | | | | |
| 1182. | JAN. . | 6 16 56 | 6 16 3 | 1185. | JAN. . | 3 8 6 | 3 19 11 |
| C | FEB. . | 5 5 40 | 5 2 48 | F. | FEB. . | 1 20 50 | 2 9 42 |
| 14 5 33 | MAR. . | 6 13 24 | 6 13 42 | 13 23 0 | MAR. . | 3 9 34 | 3 21 31 |
| | APRIL | 5 7 8 | 5 1 10 | | APRIL | 1 22 18 | 2 6 55 |
| | MAY . | 4 19 52 | 4 13 41 | | O | 16 16 40 | 16 16 59 |
| | JUNE . | 3 8 36 | 3 3 30 | | MAY . | 1 11 2 | 1 14 35 |
| | O | 18 2 58 | 18 5 59 | | JUNE . | 30 23 46 | 30 21 23 |
| | JULY . | 2 21 20 | 2 18 31 | | JULY . | 29 12 30 | 29 4 38 |
| | AUG. . | 1 10 4 | 1 10 12 | | AUG. . | 29 1 14 | 28 18 12 |
| | SEPT. . | 30 22 48 | 31 1 51 | | SEPT. . | 27 13 58 | 27 0 9 |
| | OCT. . | 29 11 32 | 29 16 54 | | O | 26 2 42 | 25 14 8 |
| | NOV. . | 29 0 16 | 29 6 57 | | OCT. . | 10 21 4 | 10 23 33 |
| | NOV. . | 27 13 0 | 27 19 54 | | OCT. . | 25 15 26 | 25 7 2 |
| | O | 12 7 22 | 11 23 46 | | NOV. . | 24 4 10 | 24 2 1 |
| | DEC. . | 27 1 44 | 27 7 45 | | DEC. . | 23 16 54 | 23 21 32 |
| 1183. | JAN. . | 25 14 29 | 25 18 33 | 1186. | JAN. . | 22 5 39 | 22 15 53 |
| B. | FEB. . | 24 3 13 | 24 4 23 | E. | FEB. . | 20 18 23 | 21 7 56 |
| 14 11 22 | MAR. . | 25 15 57 | 25 13 38 | 14 4 49 | MAR. . | 22 7 7 | 22 20 50 |
| | APRIL | 24 4 41 | 23 22 55 | | O | 6 1 29 | 5 19 59 |
| | MAY . | 23 17 25 | 23 9 4 | | APRIL | 20 19 51 | 21 6 51 |
| | O | 7 11 47 | 7 21 21 | | MAY . | 20 8 35 | 20 18 45 |
| | JUNE . | 22 6 9 | 21 20 53 | | JUNE . | 18 21 19 | 18 21 31 |
| | JULY . | 21 18 53 | 21 10 46 | | JULY . | 18 10 3 | 18 4 17 |
| | AUG. . | 20 7 37 | 20 2 34 | | AUG. . | 16 22 47 | 16 12 9 |
| | SEPT. . | 18 20 21 | 18 19 35 | | SEPT. . | 15 11 31 | 14 23 5 |
| | OCT. . | 18 9 5 | 18 12 51 | | O | 30 5 53 | 30 11 21 |
| | NOV. . | 16 21 49 | 17 5 22 | | OCT. . | 15 0 15 | 14 10 48 |
| | O | 1 16 11 | 1 5 35 | | NOV. . | 13 12 59 | 13 2 31 |
| | DEC. . | 16 10 33 | 16 20 23 | | DEC. . | 13 1 43 | 12 20 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1187. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1190. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| n. | | | | g. | | | |
| March. | JAN. . | 11 14 28 | 11 16 1 | | JAN. . | { 8 5 37 | 8 0 0 |
| <i>d. h. m.</i> | FEB. . | 10 3 12 | 10 10 56 | | ○ | { 22 23 59 | 23 11 56 |
| 14 10 37 | MAR. . | { 11 15 56 | 12 3 55 | March. | FEB. . | 6 18 21 | 6 12 20 |
| | ○ | { 26 10 18 | 26 6 3 | <i>d. h. m.</i> | MAR. . | 8 7 6 | 8 1 35 |
| | APRIL | 10 4 40 | 10 18 5 | 14 4 4 | APRIL | 6 19 50 | 6 15 48 |
| | MAY . | 9 17 24 | 10 5 17 | | MAY . | 6 8 34 | 6 6 50 |
| | JUNE . | 8 6 8 | 8 14 6 | | JUNE . | 4 21 18 | 4 22 17 |
| | JULY . | 7 18 52 | 7 21 31 | | JULY . | { 4 10 2 | 4 13 30 |
| | AUG. . | 6 7 36 | 6 4 38 | | ○ | { 19 4 24 | 18 20 6 |
| | SEPT. . | { 4 20 20 | 4 12 30 | | AUG. . | 2 22 46 | 3 3 53 |
| | ○ | { 19 14 42 | 19 16 47 | | SEPT. . | 1 11 30 | 1 17 12 |
| | OCT. . | 4 9 4 | 3 21 59 | | ○ | { 1 0 14 | 1 5 29 |
| | NOV. . | 2 21 48 | 2 9 41 | | SEPT. . | { 30 12 58 | 30 17 3 |
| | DEC. . | { 2 10 32 | 1 23 54 | | NOV. . | 29 1 42 | 29 4 13 |
| | | { 31 23 16 | 31 16 23 | | DEC. . | 28 14 26 | 28 15 7 |
| | | | | | ○ | { 12 8 48 | 12 13 39 |
| 1188. | JAN. . | 30 12 0 | 30 10 20 | 1191. | JAN. . | { 27 3 10 | 27 1 48 |
| c. d. | FEB. . | 29 0 44 | 29 4 37 | f. | FEB. . | 25 15 54 | 25 12 21 |
| 13 16 26 | MAR. . | 29 13 28 | 29 21 54 | 14 9 53 | MAR. . | 27 4 38 | 26 23 11 |
| | APRIL | 28 2 12 | 28 13 8 | | APRIL | 25 17 22 | 25 10 51 |
| | MAY . | 27 14 56 | 28 1 51 | | MAY . | 25 6 6 | 24 23 47 |
| | JUNE . | 26 3 40 | 26 12 14 | | JUNE . | 23 18 50 | 23 14 7 |
| | JULY . | 25 16 24 | 25 21 8 | | ○ | { 8 18 12 | 8 13 6 |
| | AUG. . | 21 5 8 | 24 5 16 | | JULY . | { 23 7 34 | 23 5 35 |
| | SEPT. . | 22 17 52 | 22 13 47 | | AUG. . | 21 20 18 | 21 21 32 |
| | OCT. . | 22 6 36 | 21 23 21 | | SEPT. . | 20 9 2 | 20 18 15 |
| | NOV. . | 20 19 20 | 20 10 26 | | OCT. . | 19 21 46 | 20 4 7 |
| | DEC. . | 20 8 4 | 19 23 11 | | NOV. . | 18 10 30 | 18 17 51 |
| | | | | | DEC. . | 17 23 14 | 18 6 24 |
| 1189. | JAN. . | 18 20 49 | 18 13 36 | 1192. | JAN. . | 16 11 59 | 16 17 43 |
| a. | ○ | { 2 15 11 | 3 8 1 | e. d. | FEB. . | 15 0 43 | 15 3 52 |
| 13 22 15 | FEB. . | { 17 9 33 | 17 5 21 | 13 15 42 | MAR. . | 15 13 27 | 15 13 7 |
| | MAR. . | 18 22 17 | 18 21 57 | | APRIL | 14 2 11 | 13 22 2 |
| | APRIL | 17 11 1 | 17 14 32 | | MAY . | { 13 14 55 | 13 7 26 |
| | MAY . | 16 23 45 | 17 6 17 | | ○ | { 23 9 17 | 23 20 10 |
| | JUNE . | 15 12 29 | 15 20 29 | | JUNE . | 12 3 39 | 11 18 10 |
| | JULY . | { 15 1 13 | 15 8 53 | | JULY . | 11 16 23 | 11 6 56 |
| | ○ | { 29 19 35 | 29 6 50 | | AUG. . | 10 5 7 | 9 21 51 |
| | AUG. . | 13 13 57 | 13 19 44 | | SEPT. . | 8 17 51 | 8 14 31 |
| | SEPT. . | 12 2 41 | 12 5 41 | | OCT. . | 8 6 35 | 8 8 2 |
| | OCT. . | 11 15 25 | 11 15 30 | | NOV. . | { 6 19 19 | 7 1 13 |
| | NOV. . | 10 4 9 | 10 1 39 | | ○ | { 21 13 41 | 21 3 11 |
| | DEC. . | 9 16 53 | 9 12 29 | | DEC. . | 6 8 3 | 6 17 21 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|----------|------------------------------------|------------------------------------|
| A.D. 1193. c. March. <i>d. h. m.</i> 13 21 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1196. G.F. March. <i>d. h. m.</i> 13 14 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 4 20 43 | 5 7 32 | | JAN. . | 2 11 57 | 2 10 16 |
| | FEB. . | 3 9 32 | 3 19 35 | | FEB. . | 1 0 41 | 1 5 28 |
| | MAR. . | 4 22 16 | 5 5 36 | | March. ○ | 1 13 25 | 1 23 29 |
| | APRIL | 3 11 0 | 3 14 6 | | Mar. ○ | 16 7 47 | 16 5 7 |
| | MAY . | 2 23 44 | 2 21 44 | | | 31 2 9 | 31 15 1 |
| | ○ | 17 18 6 | 18 3 10 | | APRIL | 29 14 53 | 30 3 38 |
| | JUNE . | 1 12 28 | 1 5 28 | | MAY . | 29 3 37 | 29 13 32 |
| | | 1 1 12 | 80 14 23 | | JUNE . | 27 16 21 | 27 21 36 |
| | JULY . | 30 13 56 | 30 1 26 | | JULY . | 27 5 5 | 27 4 50 |
| | AUG. . | 29 2 40 | 28 15 14 | | AUG. . | 25 17 49 | 25 12 21 |
| | SEPT. . | 27 15 24 | 27 7 44 | | ○ | 9 12 11 | 9 12 1 |
| | OCT. . | 27 4 8 | 27 2 7 | | SEPT. . | 24 6 33 | 23 21 6 |
| | ○ | 10 22 30 | 10 17 15 | | OCT. . | 23 19 17 | 23 7 44 |
| | NOV. . | 25 16 52 | 25 21 4 | | NOV. . | 22 8 1 | 21 20 43 |
| | DEC. . | 25 5 36 | 25 15 5 | | DEC. . | 21 20 45 | 21 12 3 |
| 1194. B. 14 3 19 | JAN. . | 23 18 20 | 24 6 56 | 1197. E. 13 20 46 | JAN. . | 20 9 30 | 20 5 14 |
| | FEB. . | 22 7 4 | 22 20 4 | | FEB. . | 18 22 14 | 18 23 18 |
| | MAR. . | 23 19 43 | 24 6 29 | | ○ | 5 16 36 | 5 21 12 |
| | APRIL | 22 8 32 | 22 14 36 | | MAR. . | 20 10 58 | 20 17 1 |
| | ○ | 7 2 54 | 7 4 17 | | APRIL | 18 23 42 | 19 9 16 |
| | MAY . | 21 21 16 | 21 21 50 | | MAY . | 18 12 26 | 18 23 14 |
| | JUNE . | 20 10 0 | 20 4 39 | | JUNE . | 17 1 10 | 17 10 48 |
| | JULY . | 19 22 44 | 19 12 22 | | JULY . | 16 13 54 | 16 20 27 |
| | AUG. . | 18 11 23 | 17 22 3 | | AUG. . | 15 2 38 | 15 5 1 |
| | SEPT. . | 17 0 12 | 16 10 32 | | ○ | 29 21 0 | 29 12 5 |
| | OCT. . | 16 12 56 | 16 2 6 | | SEPT. . | 18 15 22 | 18 13 29 |
| | ○ | 31 7 18 | 31 9 7 | | OCT. . | 13 4 6 | 12 22 40 |
| | NOV. . | 15 1 40 | 14 20 17 | | NOV. . | 11 16 50 | 11 9 4 |
| | DEC. . | 14 14 24 | 14 15 47 | | DEC. . | 11 5 34 | 10 20 58 |
| 1195. A. 14 9 8 | JAN. . | 13 3 9 | 13 11 0 | 1198. D. 14 2 35 | JAN. . | 9 18 19 | 9 10 27 |
| | FEB. . | 11 15 53 | 12 4 16 | | FEB. . | 8 7 3 | 8 1 20 |
| | MAR. . | 13 4 37 | 13 13 40 | | ○ | 23 1 25 | 23 12 51 |
| | APRIL | 11 17 21 | 12 5 59 | | MAR. . | 9 19 47 | 9 17 18 |
| | MAY . | 11 6 5 | 11 14 45 | | APRIL | 8 8 31 | 8 9 45 |
| | JUNE . | 9 13 49 | 9 21 56 | | MAY . | 7 21 15 | 8 1 53 |
| | JULY . | 9 7 33 | 9 4 33 | | JUNE . | 6 9 59 | 6 16 54 |
| | AUG. . | 7 20 17 | 7 11 51 | | JULY . | 5 22 48 | 6 6 18 |
| | SEPT. . | 6 9 1 | 5 20 43 | | AUG. . | 4 11 27 | 4 18 6 |
| | OCT. . | 5 21 45 | 5 8 5 | | ○ | 19 5 49 | 18 16 18 |
| | NOV. . | 4 10 29 | 3 22 23 | | SEPT. . | 3 0 11 | 3 4 41 |
| | DEC. . | 3 23 13 | 3 15 24 | | OCT. . | 2 12 55 | 2 14 44 |
| | | | | | Nov. . | 1 1 39 | 1 0 52 |
| | | | | | Dec. . | 30 14 23 | 30 11 27 |
| | | | | | | 30 3 7 | 29 22 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1199. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1202. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| C. | | | | F. | | | |
| March. | JAN. . | 28 15 51 | 28 10 22 | March. | JAN. . | 25 7 1 | 25 18 6 |
| <i>d. h. m.</i> | FEB. . | 27 4 35 | 26 22 50 | <i>d. h. m.</i> | FEB. . | 23 19 45 | 24 5 0 |
| 14 8 23 | MAR. . | 28 17 19 | 28 12 14 | 14 1 50 | MAR. . | 25 8 29 | 25 14 2 |
| | APRIL . | 27 6 3 | 27 2 38 | | APRIL . | 23 21 13 | 23 21 49 |
| | MAY . | 26 18 47 | 26 17 47 | | MAY . | 23 9 57 | 23 5 14 |
| | JUNE . | 25 7 31 | 25 9 11 | | JUNE . | 21 22 41 | 21 18 19 |
| | JULY . | 24 20 15 | 25 0 10 | | JULY . | 21 11 25 | 20 23 7 |
| | AUG. . | 23 8 59 | 23 14 17 | | AUG. . | 20 0 9 | 19 11 32 |
| | SEPT. . | 21 21 43 | 22 3 21 | | SEPT. . | 18 12 53 | 18 2 50 |
| | OCT. . | 21 10 27 | 21 15 32 | | OCT. . | 18 1 37 | 17 20 32 |
| | NOV. . | 19 23 11 | 20 3 6 | | NOV. . | 16 14 21 | 16 15 33 |
| | DEC. . | 19 11 55 | 19 14 11 | | DEC. . | 16 3 5 | 16 10 20 |
| | ○ | { 3 6 18 | 3 7 54 | | | | |
| 1200. | JAN. . | { 18 0 40 | 18 0 55 | 1203. | JAN. . | 14 15 50 | 15 3 28 |
| B.A. | FEB. . | 16 13 24 | 16 11 18 | R. | FEB. . | 13 4 34 | 13 17 58 |
| 13 14 12 | MAR. . | 17 2 8 | 16 21 40 | 14 7 39 | MAR. . | 14 17 18 | 15 5 36 |
| | APRIL . | 15 14 52 | 15 8 34 | | APRIL . | { 13 6 2 | 13 14 45 |
| | MAY . | 15 3 36 | 14 20 34 | | ○ | { 28 0 24 | 27 23 44 |
| | JUNE . | { 13 16 20 | 13 10 4 | | MAY . | 12 18 46 | 12 22 12 |
| | ○ | { 28 10 42 | 28 13 26 | | JUNE . | 11 7 30 | 11 4 56 |
| | JULY . | 13 5 4 | 13 1 1 | | JULY . | 10 20 14 | 10 12 2 |
| | AUG. . | 11 17 48 | 11 16 56 | | AUG. . | 9 8 58 | 8 20 38 |
| | SEPT. . | 10 6 32 | 10 9 5 | | SEPT. . | 7 21 42 | 7 7 41 |
| | OCT. . | 9 19 16 | 10 0 43 | | OCT. . | { 7 10 26 | 6 21 49 |
| | NOV. . | 8 8 0 | 8 15 20 | | ○ | { 22 4 48 | 22 8 3 |
| | DEC. . | { 7 20 41 | 8 4 40 | | NOV. . | 5 23 10 | 5 14 52 |
| | ○ | { 22 15 6 | 22 7 57 | | DEC. . | 5 11 54 | 5 9 57 |
| | | | | | | | |
| 1201. | JAN. . | 6 9 29 | 6 16 38 | 1204. | JAN. . | 4 0 39 | 4 5 32 |
| G. | FEB. . | 4 22 13 | 5 3 16 | D.C. | FEB. . | 2 13 23 | 2 23 55 |
| 13 20 1 | MAR. . | 6 10 57 | 6 12 43 | 13 13 23 | MAR. . | 3 2 7 | 3 15 45 |
| | APRIL . | 4 23 41 | 4 21 30 | | APRIL . | { 1 14 51 | 2 4 29 |
| | MAY . | 4 12 25 | 4 6 19 | | ○ | { 16 9 13 | 16 3 12 |
| | JUNE . | { 3 1 9 | 2 16 6 | | MAY . | { 1 3 35 | 1 14 22 |
| | ○ | { 17 19 31 | 18 4 31 | | JUNE . | { 30 16 19 | 30 22 11 |
| | JULY . | 2 13 53 | { 2 3 39 | | JULY . | 29 5 3 | 29 4 59 |
| | AUG. . | { 1 2 37 | { 31 17 29 | | AUG. . | 28 17 47 | 28 11 53 |
| | SEPT. . | { 30 15 21 | 30 9 30 | | SEPT. . | 27 6 31 | 26 19 56 |
| | OCT. . | 29 4 5 | 29 2 56 | | ○ | { 10 13 37 | 10 19 41 |
| | NOV. . | 28 16 49 | 28 20 41 | | NOV. . | { 25 7 59 | 24 18 57 |
| | ○ | { 11 23 55 | 11 14 13 | | DEC. . | 23 20 43 | 23 10 41 |
| | DEC. . | { 26 18 17 | 27 4 59 | | | 23 9 27 | 23 4 43 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1205. B. March. <i>d. h. m.</i> 13 19 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1208. F.E. March. <i>d. h. m.</i> 13 12 43 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 22 11 | 21 23 50 | | JAN. . | 19 13 21 | 19 8 45 |
| | FEB. . | 20 10 55 | 20 18 29 | | ○ | { 3 7 43 | 3 20 31 |
| | MAR. . | 21 23 39 | 22 11 15 | | FEB. . | { 18 2 5 | 17 20 36 |
| | ○ | { 5 18 1 | 5 13 49 | | MAR. . | 18 14 49 | 18 9 14 |
| | APRIL | { 20 12 23 | 21 1 27 | | APRIL | 17 3 33 | 16 22 50 |
| | MAY . | 20 1 7 | 20 12 29 | | MAY . | 16 16 17 | 16 13 26 |
| | JUNE . | 18 13 51 | 18 21 23 | | JUNE . | 15 5 1 | 15 4 42 |
| | JULY . | 18 2 35 | 18 4 59 | | JULY . | { 14 17 45 | 14 20 8 |
| | AUG. . | 16 15 19 | 16 12 23 | | ○ | { 29 12 7 | 29 3 37 |
| | SEPT. . | { 15 4 3 | 14 20 35 | | AUG. . | 13 6 29 | 13 10 51 |
| | ○ | { 29 22 25 | 30 0 11 | | SEPT. . | 11 19 13 | 12 0 44 |
| | OCT. . | 14 16 47 | 14 6 22 | | OCT. . | 11 7 57 | 11 13 38 |
| | NOV. . | 13 5 31 | 12 13 13 | | NOV. . | 9 20 41 | 10 1 43 |
| | DEC. . | 12 18 15 | 12 8 21 | | DEC. . | 9 9 25 | 9 13 9 |
| 1206. A. 14 1 5 | JAN. . | 11 7 0 | 11 0 32 | 1209. D. 13 18 32 | JAN. . | { 7 22 9 | 8 0 4 |
| | FEB. . | 9 19 44 | 9 13 4 | | ○ | { 22 16 31 | 22 21 30 |
| | MAR. . | 11 8 23 | 11 11 53 | | FEB. . | 6 10 53 | 6 10 26 |
| | APRIL | 9 21 12 | 10 4 50 | | MAR. . | 7 23 33 | 7 20 33 |
| | MAY . | 9 9 56 | 9 19 57 | | APRIL | 6 12 22 | 6 6 50 |
| | JUNE . | 7 22 40 | 8 8 45 | | MAY . | 6 1 6 | 5 17 56 |
| | JULY . | 7 11 24 | 7 19 23 | | JUNE . | 4 13 50 | 4 6 28 |
| | AUG. . | 6 0 8 | 6 4 34 | | JULY . | { 4 2 34 | 3 20 39 |
| | SEPT. . | 4 12 52 | 4 13 12 | | ○ | { 18 20 56 | 18 20 38 |
| | OCT. . | 4 1 36 | 3 22 9 | | AUG. . | 2 15 18 | 2 12 14 |
| | NOV. . | 2 14 20 | 2 8 4 | | SEPT. . | { 1 4 2 | 1 4 33 |
| | DEC. . | { 2 3 4 | 1 19 15 | | ○ | { 30 16 46 | 30 20 48 |
| | | { 31 15 43 | 31 7 50 | | OCT. . | 30 5 30 | 30 12 17 |
| | | | | | NOV. . | 28 13 14 | 29 2 30 |
| | | | | | DEC. . | 23 6 53 | 23 15 15 |
| 1207. G. 14 6 54 | JAN. . | 30 4 32 | 29 21 49 | 1210. C. 14 0 21 | JAN. . | 26 19 42 | 27 2 23 |
| | ○ | { 13 22 54 | 14 11 22 | | FEB. . | 25 8 26 | 25 12 19 |
| | FEB. . | { 28 17 16 | 23 13 1 | | MAR. . | 26 21 10 | 26 21 10 |
| | MAR. . | 30 6 0 | 30 5 2 | | APRIL | 25 9 54 | 25 5 37 |
| | APRIL | 28 18 44 | 28 21 13 | | MAY . | 24 22 38 | 24 14 35 |
| | MAY . | 23 7 23 | 23 12 49 | | JUNE . | 23 11 22 | 23 1 2 |
| | JUNE . | 26 20 12 | 27 3 8 | | JULY . | 23 0 6 | 22 13 40 |
| | JULY . | 26 8 56 | 26 15 54 | | AUG. . | 21 12 50 | 21 4 41 |
| | ○ | { 10 3 18 | 9 14 6 | | SEPT. . | 20 1 34 | 19 21 41 |
| | AUG. . | { 24 21 40 | 25 3 16 | | OCT. . | 19 14 13 | 19 15 30 |
| | SEPT. . | 23 10 24 | 23 13 46 | | NOV. . | 18 3 2 | 18 9 21 |
| | OCT. . | 22 23 8 | 23 0 3 | | ○ | { 2 21 24 | 2 11 53 |
| | NOV. . | 21 11 52 | 21 10 32 | | DEC. . | { 17 15 46 | 18 1 48 |
| | DEC. . | 21 0 36 | 20 21 24 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|-----------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1211. D. March. d. h. m. 14 6 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1214. E. March. d. h. m. 13 23 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 4 30 | 16 16 6 | | JAN. . | 12 19 41 | 12 18 12 |
| | FEB. . | 14 17 14 | 15 4 2 | | FEB. . | 11 8 25 | 11 13 8 |
| | MAR. . | 16 5 59 | 16 13 49 | | MAR. . | 12 21 9 | 13 6 51 |
| | APRIL | 14 18 43 | 14 21 57 | | ○ | 27 15 31 | 27 13 6 |
| | MAY . | 14 7 27 | 14 5 17 | | APRIL | 11 9 53 | 11 22 14 |
| | ○ | 29 1 49 | 29 9 48 | | MAY . | 10 22 37 | 11 10 46 |
| | JUNE . | 12 20 11 | 12 12 46 | | JUNE . | 9 11 21 | 9 20 45 |
| | JULY . | 12 8 55 | 11 21 32 | | JULY . | 9 0 5 | 9 4 59 |
| | AUG. . | 10 21 39 | 10 8 33 | | AUG. . | 7 12 49 | 7 12 29 |
| | SEPT. . | 9 10 23 | 8 22 27 | | SEPT. . | 6 1 33 | 5 20 22 |
| | OCT. . | 8 23 7 | 8 15 10 | | ○ | 20 19 55 | 20 19 55 |
| | NOV. . | 7 11 51 | 7 9 52 | | OCT. . | 5 14 17 | 5 5 25 |
| | ○ | 22 6 13 | 22 2 8 | | NOV. . | 4 3 1 | 3 16 18 |
| | DEC. . | 7 0 35 | 7 5 5 | | DEC. . | 3 15 45 | 3 5 17 |
| 1212. A.G. 13 11 58 | JAN. . | 5 13 20 | 5 23 13 | 1215. D. 14 5 24 | JAN. . | 2 4 30 | 1 20 24 |
| | FEB. . | 4 2 4 | 4 15 11 | | FEB. . | 31 17 14 | 31 13 10 |
| | MAR. . | 4 14 48 | 5 4 10 | | ... | ... | ... |
| | APRIL | 3 8 32 | 3 14 22 | | MAR. ○ | 2 5 53 | 2 6 44 |
| | MAY . | 2 16 16 | 2 22 26 | | ○ | 17 0 20 | 17 5 25 |
| | ○ | 17 10 33 | 17 10 50 | | APRIL | 31 18 42 | 1 0 3 |
| | JUNE . | 1 5 0 | 1 5 19 | | MAY . | 30 7 26 | 30 16 4 |
| | JULY . | 30 17 44 | 30 12 4 | | JUNE . | 29 20 10 | 30 6 2 |
| | AUG. . | 30 6 28 | 29 19 48 | | JULY . | 28 8 54 | 28 17 48 |
| | SEPT. . | 28 19 12 | 28 5 36 | | AUG. . | 27 21 33 | 28 3 47 |
| | OCT. . | 27 7 56 | 26 18 14 | | ○ | 26 10 22 | 26 12 48 |
| | ○ | 26 20 40 | 26 9 57 | | SEPT. . | 10 4 44 | 9 19 12 |
| | NOV. . | 10 15 2 | 10 17 53 | | OCT. . | 24 23 6 | 24 21 44 |
| | DEC. . | 25 9 24 | 25 4 14 | | NOV. . | 24 11 50 | 24 7 17 |
| | | 24 22 8 | 24 23 46 | | DEC. . | 23 0 34 | 22 17 55 |
| 1213. F. 13 17 47 | JAN. . | 23 10 52 | 23 18 54 | 1216. C.D. 13 11 13 | JAN. . | 21 2 2 | 20 18 53 |
| | FEB. . | 21 23 36 | 22 12 4 | | FEB. . | 19 14 46 | 19 9 15 |
| | MAR. . | 23 12 20 | 24 2 18 | | ○ | 5 9 8 | 5 21 3 |
| | APRIL | 22 1 4 | 22 13 29 | | MAR. . | 20 3 30 | 20 0 36 |
| | MAY . | 21 13 48 | 21 22 10 | | APRIL | 18 16 14 | 18 16 33 |
| | JUNE . | 20 2 32 | 20 5 21 | | MAY . | 18 4 58 | 18 8 24 |
| | JULY . | 19 15 16 | 19 12 6 | | JUNE . | 16 17 42 | 16 23 26 |
| | AUG. . | 18 4 0 | 17 19 33 | | JULY . | 16 6 26 | 16 13 8 |
| | SEPT. . | 16 16 44 | 16 4 40 | | AUG. . | 14 19 10 | 15 1 24 |
| | OCT. . | 16 5 28 | 15 16 14 | | ○ | 29 13 32 | 28 23 41 |
| | NOV. . | 14 18 12 | 14 6 35 | | SEPT. . | 13 7 54 | 13 12 32 |
| | DEC. . | 14 6 56 | 13 23 32 | | OCT. . | 12 20 38 | 12 23 8 |
| | | | | | NOV. . | 11 9 22 | 11 9 40 |
| | | | | | DEC. . | 10 22 6 | 10 20 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1217. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1220. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. | | | |
| March. | JAN. . | 9 10 51 | 9 7 26 | March. | JAN. . | 7 2 1 | 7 13 31 |
| <i>d. h. m.</i> | FEB. . | 7 23 35 | 7 18 49 | <i>d. h. m.</i> | FEB. . | 5 14 45 | 6 2 37 |
| 13 17 2 | MAR. . | 9 12 19 | 9 6 44 | 13 10 28 | MAR. . | 6 3 29 | 6 13 18 |
| | APRIL | 8 1 3 | 7 19 32 | | APRIL | 4 16 13 | 4 22 1 |
| | MAY . | 7 13 47 | 7 9 24 | | MAY . | 4 4 57 | 4 5 28 |
| | JUNE . | 6 2 31 | 6 0 15 | | JUNE . | 2 17 41 | 2 12 37 |
| | JULY . | 5 15 15 | 5 15 39 | | JULY . | { 2 6 25 | 1 20 32 |
| | AUG. . | 4 3 59 | 4 6 57 | | | { 31 19 9 | 31 6 18 |
| | SEPT. . | 2 16 43 | 2 21 35 | | AUG. . | 30 7 53 | 29 18 47 |
| | | { 2 5 27 | 2 11 16 | | SEPT. . | 28 20 37 | 28 10 14 |
| | OCT. . | { 31 18 11 | { 1 0 1 | | OCT. . | 28 9 21 | 28 4 13 |
| | NOV. . | 30 6 55 | 30 11 57 | | NOV. . | 26 22 5 | 26 23 29 |
| | DEC. . | 29 19 39 | 29 23 8 | | DEC. . | 26 10 49 | 26 18 28 |
| | | | | | | | |
| 1218. | ○ | { 13 14 2 | 13 15 49 | 1221. | JAN. . | 24 23 34 | 25 11 40 |
| G. | JAN. . | { 28 8 24 | 28 9 41 | C. | FEB. . | 23 12 18 | 24 2 5 |
| 13 22 51 | FEB. . | 26 21 8 | 26 19 41 | 13 16 17 | MAR. . | 25 1 2 | 25 13 31 |
| | MAR. . | 28 9 52 | 28 5 32 | | APRIL | 23 13 46 | 23 22 27 |
| | APRIL | 26 22 36 | 26 15 53 | | MAY . | 23 2 30 | 23 5 43 |
| | MAY . | 26 11 20 | 26 3 25 | | JUNE . | 21 15 14 | 21 12 21 |
| | JUNE . | 25 0 4 | 24 16 33 | | JULY . | 21 3 58 | 20 19 28 |
| | ○ | { 9 18 26 | 9 20 53 | | AUG. . | 19 16 42 | 19 4 10 |
| | JULY . | { 24 12 48 | 24 7 36 | | SEPT. . | 18 5 26 | 17 15 24 |
| | AUG. . | 23 1 32 | 22 23 48 | | OCT. . | 17 18 10 | 17 5 39 |
| | SEPT. . | 21 14 16 | 21 16 26 | | ○ | { 1 12 32 | 1 16 40 |
| | OCT. . | 21 3 0 | 21 8 39 | | NOV. . | { 16 6 54 | 15 22 49 |
| | NOV. . | 19 15 44 | 19 23 48 | | DEC. . | 15 19 33 | 15 17 57 |
| | DEC. . | 19 4 23 | 19 13 27 | | | | |
| | | | | | | | |
| 1219. | ○ | { 2 22 50 | 2 16 7 | 1222. | JAN. . | 14 8 22 | 14 13 27 |
| F. | JAN. . | { 17 17 12 | 18 1 25 | B. | FEB. . | 12 21 6 | 13 7 42 |
| 14 4 40 | FEB. . | 16 5 56 | 16 11 50 | 13 22 6 | MAR. . | 14 9 50 | 14 23 22 |
| | MAR. . | 17 18 40 | 17 20 55 | | APRIL | { 12 22 34 | 13 11 59 |
| | APRIL | 16 7 24 | 16 5 16 | | ○ | { 27 16 56 | 27 10 20 |
| | MAY . | 15 20 8 | 15 13 39 | | MAY . | 12 11 18 | 12 21 47 |
| | JUNE . | { 14 8 52 | 13 23 5 | | JUNE . | 11 0 2 | 11 5 35 |
| | ○ | { 29 3 14 | 29 11 39 | | JULY . | 10 12 46 | 10 12 23 |
| | JULY . | 13 21 36 | 13 10 29 | | AUG. . | 9 1 30 | 8 19 32 |
| | AUG. . | 12 10 20 | 12 0 20 | | SEPT. . | 7 14 14 | 7 3 50 |
| | SEPT. . | 10 23 4 | 10 16 32 | | OCT. . | { 7 2 58 | 6 14 12 |
| | OCT. . | 10 11 48 | 10 10 22 | | ○ | { 21 21 20 | 22 3 46 |
| | NOV. . | 9 0 32 | 9 4 37 | | NOV. . | 5 15 42 | 5 3 13 |
| | DEC. . | { 8 13 16 | 8 21 59 | | DEC. . | 5 4 26 | 4 18 55 |
| | ○ | { 23 7 33 | 22 22 51 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1223. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1226. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 3 17 11 | 3 12 46 | March. | JAN. . | 29 21 5 | 29 17 24 |
| <i>d. h. m.</i> | FEB. . | 2 5 55 | 2 7 35 | <i>d. h. m.</i> | ○ | 13 15 27 | 14 3 57 |
| 14 8 55 | MAR. . | 3 18 39 | 4 1 55 | 13 21 21 | FEB. . | 28 9 49 | 28 4 45 |
| | APRIL | 2 7 23 | 2 18 27 | | MAR. . | 29 22 33 | 29 16 47 |
| | ○ | 17 1 45 | 16 21 29 | | APRIL | 28 11 17 | 28 5 48 |
| | MAY . | 1 20 7 | 2 8 22 | | MAY . | 28 0 1 | 27 20 0 |
| | | 31 8 51 | 31 19 35 | | JUNE . | 26 12 45 | 26 11 8 |
| | JUNE . | 29 21 35 | 30 4 40 | | JULY . | 26 1 29 | 26 2 40 |
| | JULY . | 29 10 19 | 29 12 33 | | ○ | 9 19 51 | 9 11 15 |
| | AUG. . | 27 23 3 | 27 20 18 | | AUG. . | 24 14 13 | 24 17 55 |
| | SEPT. . | 26 11 47 | 26 4 51 | | SEPT. . | 23 2 57 | 23 8 24 |
| | ○ | 11 6 9 | 11 7 44 | | OCT. . | 22 15 41 | 22 21 55 |
| | OCT. . | 26 0 31 | 25 14 53 | | NOV. . | 21 4 25 | 21 10 27 |
| | NOV. . | 24 13 15 | 24 2 51 | | DEC. . | 20 17 9 | 20 22 6 |
| | DEC. . | 24 1 59 | 23 16 50 | | | | |
| 1224. | JAN. . | 22 14 43 | 22 8 39 | 1227. | JAN. . | 19 5 53 | 19 8 55 |
| G.F. | FEB. . | 21 3 27 | 21 1 41 | C. | ○ | 3 0 15 | 3 5 15 |
| 13 9 41 | MAR. . | 21 16 11 | 21 19 2 | 14 3 10 | FEB. . | 17 18 37 | 17 19 0 |
| | APRIL | 20 4 55 | 20 11 39 | | MAR. . | 19 7 21 | 19 4 37 |
| | MAY . | 19 17 30 | 20 2 40 | | APRIL | 17 20 5 | 17 14 20 |
| | JUNE . | 18 6 23 | 18 15 35 | | MAY . | 17 8 49 | 17 0 53 |
| | JULY . | 17 19 7 | 18 2 33 | | JUNE . | 15 21 33 | 15 13 8 |
| | AUG. . | 16 7 51 | 16 12 10 | | JULY . | 15 10 17 | 15 3 12 |
| | SEPT. . | 14 20 35 | 14 21 16 | | ○ | 30 4 39 | 30 4 12 |
| | OCT. . | 14 9 19 | 14 6 40 | | AUG. . | 13 23 1 | 13 18 57 |
| | NOV. . | 12 22 3 | 12 16 51 | | SEPT. . | 12 11 45 | 12 11 40 |
| | DEC. . | 12 10 47 | 12 4 6 | | OCT. . | 12 0 29 | 12 4 29 |
| | | | | | NOV. . | 10 13 13 | 10 20 31 |
| 1225. | JAN. . | 10 23 32 | 10 16 29 | 1228. | JAN. . | 8 14 42 | 9 0 2 |
| E. | FEB. . | 9 12 16 | 9 6 0 | B.A. | FEB. . | 7 3 26 | 7 11 8 |
| 13 15 33 | ○ | 24 6 38 | 24 19 37 | 13 8 59 | MAR. . | 7 16 10 | 7 20 41 |
| | MAR. . | 11 1 0 | 10 20 35 | | APRIL | 6 4 54 | 6 5 5 |
| | APRIL | 9 13 44 | 9 12 2 | | MAY . | 5 17 38 | 5 13 8 |
| | MAY . | 9 2 28 | 9 3 50 | | JUNE . | 4 6 22 | 3 21 45 |
| | JUNE . | 7 15 12 | 7 19 18 | | JULY . | 3 19 6 | 3 7 58 |
| | JULY . | 7 3 56 | 7 9 49 | | AUG. . | 2 7 50 | 1 20 32 |
| | AUG. . | 5 16 40 | 5 22 59 | | | 31 20 34 | 31 11 41 |
| | ○ | 20 11 2 | 19 21 32 | | SEPT. . | 30 9 18 | 30 4 59 |
| | SEPT. . | 4 5 24 | 4 10 55 | | OCT. . | 29 22 2 | 29 23 24 |
| | OCT. . | 3 18 8 | 3 21 59 | | NOV. . | 28 10 46 | 28 17 34 |
| | NOV. . | 2 6 52 | 2 8 44 | | ○ | 13 5 8 | 12*20 38 |
| | DEC. . | 1 19 36 | 1 19 29 | | DEC. . | 27 23 30 | 28 10 15 |
| | | 31 8 20 | 31 6 20 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1229. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1232. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | | | | D.C. | | | |
| March. | JAN. . | 26 12 15 | 27 0 37 | March. | JAN. . | 24 3 25 | 24 2 4 |
| <i>d. h. m.</i> | FEB. . | 25 0 59 | 25 12 24 | <i>d. h. m.</i> | FEB. . | 22 16 9 | 22 20 38 |
| 13 14 48 | MAR. . | 26 13 43 | 26 21 53 | 13 8 14 | MAR. . | 23 4 53 | 23 14 3 |
| | APRIL | 25 2 27 | 25 5 43 | | O | { 6 23 15 | 6 20 57 |
| | MAY . | 24 15 11 | 24 12 46 | | APRIL | { 21 17 37 | 22 5 16 |
| | O | { 8 9 33 | 8 16 25 | | MAY . | 21 6 21 | 21 17 48 |
| | JUNE . | 23 3 55 | 22 20 4 | | JUNE . | 19 19 5 | 20 3 55 |
| | JULY . | 22 16 39 | 22 4 45 | | JULY . | 19 7 49 | 19 12 24 |
| | AUG. . | 21 5 23 | 20 15 49 | | AUG. . | 17 20 33 | 17 20 16 |
| | SEPT. . | 19 18 7 | 19 5 52 | | SEPT. . | 16 9 17 | 16 4 31 |
| | OCT. . | 19 6 51 | 18 22 48 | | O | { 1 3 39 | 1 2 37 |
| | NOV. . | 17 19 35 | 17 17 42 | | OCT. . | { 15 22 1 | 15 13 55 |
| | O | { 2 13 57 | 2 11 4 | | NOV. . | 14 10 45 | 14 0 57 |
| | DEC. . | 17 8 19 | 17 13 9 | | DEC. . | 13 23 29 | 13 13 54 |
| | | | | 1233. | JAN. . | 12 12 13 | 12 4 43 |
| 1230. | JAN. . | 15 21 3 | 16 7 25 | B. | FEB. . | 11 0 57 | 10 20 58 |
| F. | FEB. . | 14 9 47 | 14 23 16 | 13 14 3 | MAR. . | { 12 13 41 | 12 14 2 |
| 13 20 37 | MAR. . | 15 22 31 | 16 12 6 | | O | { 27 8 3 | 27 13 29 |
| | APRIL | 14 11 15 | 14 22 6 | | APRIL | 11 2 25 | 11 6 56 |
| | MAY . | { 13 23 59 | 14 5 59 | | MAY . | 10 15 9 | 10 22 44 |
| | O | { 28 18 21 | 28 17 19 | | JUNE . | 9 3 53 | 9 12 46 |
| | JUNE . | 12 12 43 | 12 12 45 | | JULY . | 8 16 37 | 9 0 47 |
| | JULY . | 12 1 27 | 11 19 30 | | AUG. . | 7 5 21 | 7 11 11 |
| | AUG. . | 10 14 11 | 10 3 21 | | SEPT. . | { 5 18 5 | 5 20 41 |
| | SEPT. . | 9 2 55 | 8 13 13 | | O | { 20 12 27 | 20 2 28 |
| | OCT. . | 8 15 39 | 8 2 5 | | OCT. . | 5 6 49 | 5 6 6 |
| | NOV. . | { 7 4 23 | 6 17 54 | | NOV. . | 3 19 33 | 3 16 2 |
| | O | { 21 22 45 | 22 2 42 | | DEC. . | 3 8 17 | 3 2 47 |
| | DEC. . | 6 17 7 | 6 12 13 | | | | |
| | | | | 1234. | JAN. . | { 1 21 2 | 1 14 32 |
| 1231. | JAN. . | 5 5 52 | 5 7 43 | A. | FEB. . | { 31 9 46 | 31 8 17 |
| E. | FEB. . | 3 18 36 | 4 2 43 | | | ... | ... |
| 14 2 26 | MAR. . | 5 7 20 | 5 19 42 | | MAR. O | { 1 22 30 | 1 17 8 |
| | APRIL | 3 20 4 | 4 9 47 | 13 19 52 | | { 16 16 52 | 17 5 7 |
| | MAY . | 3 8 48 | 3 20 52 | | | { 31 11 14 | 31 7 49 |
| | JUNE . | 1 21 32 | 2 5 31 | | APRIL | 29 28 58 | 29 23 16 |
| | JULY . | { 1 10 16 | 1 12 46 | | MAY . | 29 12 42 | 29 14 54 |
| | | { 30 23 0 | 30 19 43 | | JUNE . | 23 1 26 | 23 5 50 |
| | AUG. . | 29 11 44 | 29 3 26 | | JULY . | 27 14 10 | 27 20 1 |
| | SEPT. . | 28 0 28 | 27 12 49 | | AUG. . | 26 2 54 | 26 3 47 |
| | OCT. . | 27 13 12 | 27 0 32 | | O | { 9 21 16 | 9 7 14 |
| | NOV. . | 26 1 56 | 25 14 56 | | SEPT. . | { 24 15 38 | 24 20 32 |
| | DEC. . | 25 14 40 | 25 7 43 | | OCT. . | 24 4 22 | 24 7 40 |
| | | | | | NOV. . | 22 17 6 | 22 13 32 |
| | | | | | DEC. . | 22 5 50 | 22 5 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1235. α. March. d. h. m. 14 1 41 | | d. h. m. | d. h. m. | A.D. 1238. c. March. d. h. m. 13 19 7 | | d. h. m. | d. h. m. |
| | JAN. . | 20 18 35 | 20 16 15 | | ○ | { 2 15 22 | 2 7 30 |
| | FEB. . | 19 7 19 | 19 3 12 | | JAN. . | { 17 9 44 | 17 21 57 |
| | MAR. . | 20 20 3 | 20 14 32 | | FEB. . | 15 22 28 | 16 10 59 |
| | APRIL | 19 8 47 | 19 2 44 | | MAR. . | 17 11 12 | 17 21 27 |
| | MAY . | 18 21 31 | 18 16 7 | | APRIL | 15 23 56 | 16 5 51 |
| | JUNE . | 17 10 15 | 17 6 43 | | MAY . | 15 12 40 | 15 13 1 |
| | JULY . | 16 22 59 | 16 22 9 | | JUNE . | { 14 1 24 | 13 19 58 |
| | AUG. . | 15 11 43 | 15 13 48 | | ○ | { 28 19 46 | 29 2 38 |
| | SEPT. . | 14 0 27 | 14 4 59 | | JULY . | 13 14 8 | 13 3 48 |
| | OCT. . | 13 13 11 | 13 19 18 | | AUG. . | 12 2 52 | 11 13 36 |
| | NOV. . | 12 1 55 | 12 8 35 | | SEPT. . | 10 15 36 | 10 2 10 |
| | DEC. . | 11 14 39 | 11 20 49 | | OCT. . | 10 4 20 | 9 17 47 |
| | | | | | NOV. . | 8 17 4 | 8 11 59 |
| | | | | | DEC. . | 8 5 48 | 8 7 27 |
| 1236. F.R. 18 7 30 | JAN. . | { 10 3 23 | 10 8 3 | 1239. B. 14 0 56 | JAN. . | 6 18 33 | 7 2 33 |
| | ○ | { 24 21 45 | 24 23 37 | | FEB. . | 5 7 17 | 5 19 43 |
| | FEB. . | 8 16 7 | 8 18 22 | | MAR. . | 6 20 1 | 7 10 1 |
| | MAR. . | 9 4 51 | 9 3 57 | | APRIL | 5 8 45 | 5 21 17 |
| | APRIL | 7 17 35 | 7 13 17 | | MAY . | 4 21 29 | 5 6 1 |
| | MAY . | 7 6 19 | 6 23 6 | | JUNE . | 3 10 13 | 3 13 10 |
| | JUNE . | 5 19 3 | 5 10 14 | | JULY . | 2 22 57 | 2 19 48 |
| | JULY . | { 5 7 47 | 4 23 15 | | | | |
| | ○ | { 20 2 9 | 20 4 22 | | AUG. . | { 1 11 41 | 1 3 0 |
| | AUG. . | 3 20 31 | 3 14 15 | | | { 31 0 25 | 30 11 52 |
| | SEPT. . | 2 9 15 | 2 6 44 | | SEPT. . | 29 13 9 | 28 23 15 |
| | OCT. . | { 1 21 59 | 1 23 52 | | OCT. . | 29 1 53 | 28 13 39 |
| | | { 31 10 43 | 31 16 40 | | ○ | { 12 20 15 | 13 1 20 |
| | NOV. . | 29 23 27 | 30 3 16 | | NOV. . | { 27 14 37 | 27 6 51 |
| | DEC. . | 29 12 11 | 29 22 9 | | DEC. . | 27 3 21 | 27 1 54 |
| 1237. D. 18 13 19 | ○ | { 18 6 33 | 13 0 16 | 1240. A.G. 18 6 45 | JAN. . | 25 16 5 | 25 21 17 |
| | JAN. . | { 28 0 56 | 28 10 9 | | FEB. . | 24 4 49 | 24 15 19 |
| | FEB. . | 26 13 40 | 26 20 18 | | MAR. . | 24 17 34 | 25 6 50 |
| | MAR. . | 28 2 24 | 28 5 1 | | APRIL | 23 6 18 | 23 19 21 |
| | APRIL | 26 15 8 | 26 12 56 | | ○ | { 8 0 40 | 7 17 24 |
| | MAY . | 26 3 52 | 25 20 57 | | MAY . | { 22 19 2 | 23 5 5 |
| | JUNE . | 24 16 36 | 24 6 7 | | JUNE . | 21 7 46 | 21 12 56 |
| | ○ | { 9 10 58 | 9 18 49 | | JULY . | 20 20 30 | 20 20 0 |
| | JULY . | { 24 5 20 | 23 17 24 | | AUG. . | 19 9 14 | 19 3 20 |
| | AUG. . | 22 18 4 | 22 7 18 | | SEPT. . | 17 21 58 | 17 11 55 |
| | SEPT. . | 21 6 48 | 20 23 45 | | OCT. . | 17 10 42 | 16 22 31 |
| | OCT. . | 20 19 32 | 20 17 56 | | ○ | { 1 5 4 | 1 11 58 |
| | NOV. . | 19 8 16 | 19 12 36 | | NOV. . | { 15 23 26 | 15 11 37 |
| | DEC. . | 18 21 0 | 19 6 19 | | DEC. . | 15 12 10 | 15 3 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1241. F. March. d. h. m. 13 12 34 | | d. h. m. | d. h. m. | A.D. 1244. C.B. March. d. h. m. 13 6 0 | | d. h. m. | d. h. m. |
| | JAN. . | 14 0 54 | 13 20 46 | | JAN. . | 11 16 4 | 11 15 16 |
| | FEB. . | 12 13 33 | 12 15 12 | | FEB. . | { 10 4 48 | 10 1 57 |
| | MAR. . | 14 2 22 | 14 9 11 | | ○ | { 24 23 10 | 25 11 43 |
| | APRIL | { 12 15 6 | 13 1 23 | | MAR. . | 10 17 32 | 10 12 47 |
| | ○ | { 27 9 23 | 27 5 2 | | APRIL | 9 6 16 | 9 0 11 |
| | MAY . | 12 3 50 | 12 15 20 | | MAY . | 8 19 0 | 8 12 42 |
| | JUNE . | 10 16 34 | 11 2 38 | | JUNE . | 7 7 44 | 7 2 32 |
| | JULY . | 10 5 18 | 10 11 56 | | JULY . | 6 20 28 | 6 17 36 |
| | AUG. . | 8 18 2 | 8 20 9 | | AUG. . | { 5 9 12 | 5 9 21 |
| | SEPT. . | 7 6 46 | 7 4 18 | | ○ | { 20 3 34 | 19 19 0 |
| | OCT. . | { 6 19 30 | 6 13 14 | | SEPT. . | 3 21 56 | 4 1 4 |
| | ○ | { 21 13 52 | 21 15 24 | | OCT. . | 3 10 40 | 3 16 10 |
| | NOV. . | 5 8 14 | 4 23 32 | | NOV. . | 1 23 24 | 2 6 15 |
| | DEC. . | 4 20 58 | 4 11 33 | | DEC. . | { 1 12 8 | 1 19 12 |
| | | | | | | { 31 0 52 | 31 7 0 |
| 1242. E. 13 18 23 | JAN. . | 3 9 43 | 3 1 21 | 1245. A. 13 11 49 | JAN. . | 29 13 36 | 29 17 42 |
| | FEB. . | 1 22 27 | 1 16 42 | | ○ | { 13 7 53 | 13 12 51 |
| | MAR. . | 3 11 11 | 3 9 12 | | FEB. . | { 28 2 21 | 28 3 26 |
| | APRIL | 1 23 55 | 2 2 3 | | MAR. . | 29 15 5 | 29 12 34 |
| | MAY . | { 1 12 39 | 1 18 22 | | APRIL | 28 3 49 | 27 21 47 |
| | | { 31 1 23 | 31 9 19 | | MAY . | 27 16 33 | 27 7 58 |
| | JUNE . | 29 14 7 | 29 22 25 | | JUNE . | 26 5 17 | 25 19 51 |
| | JULY . | 29 2 51 | 29 9 46 | | JULY . | 25 18 1 | 25 9 51 |
| | AUG. . | 27 15 35 | 27 19 52 | | ○ | { 9 12 23 | 9 11 54 |
| | SEPT. . | 26 4 19 | 26 5 29 | | AUG. . | { 24 6 45 | 24 1 47 |
| | OCT. . | 25 17 3 | 25 15 17 | | SEPT. . | 22 19 29 | 22 18 55 |
| | NOV. . | 24 5 47 | 24 1 44 | | OCT. . | 22 8 13 | 22 12 17 |
| | DEC. . | 23 18 31 | 23 12 59 | | NOV. . | 20 20 57 | 21 4 49 |
| | | | | | DEC. . | 20 9 41 | 20 19 46 |
| 1243. D. 14 0 12 | JAN. . | 22 7 16 | 22 1 5 | 1246. G. 13 17 38 | JAN. . | 18 22 26 | 19 8 45 |
| | FEB. . | 20 20 0 | 20 14 4 | | FEB. . | 17 11 10 | 17 19 41 |
| | ○ | { 7 14 22 | 8 3 43 | | MAR. . | 18 23 54 | 19 4 53 |
| | MAR. . | { 22 8 44 | 22 4 2 | | APRIL | 17 12 38 | 17 12 54 |
| | APRIL | 20 21 23 | 20 18 56 | | MAY . | 17 1 22 | 16 20 34 |
| | MAY . | 20 10 12 | 20 10 22 | | JUNE . | 15 14 6 | 15 4 53 |
| | JUNE . | 18 22 56 | 19 1 47 | | JULY . | 15 2 50 | 14 14 53 |
| | JULY . | 18 11 40 | 18 16 31 | | AUG. . | 13 15 34 | 13 3 31 |
| | AUG. . | { 17 0 24 | 17 6 9 | | SEPT. . | 12 4 18 | 11 18 50 |
| | ○ | { 31 13 46 | 31 5 6 | | OCT. . | 11 17 2 | 11 12 27 |
| | SEPT. . | 15 13 8 | 15 18 39 | | NOV. . | 10 5 46 | 10 7 14 |
| | OCT. . | 15 1 52 | 15 6 19 | | DEC. . | { 9 18 30 | 10 1 45 |
| | NOV. . | 13 14 36 | 13 17 30 | | ○ | { 24 12 52 | 24 5 25 |
| | DEC. . | 13 3 20 | 13 4 23 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1247. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1250. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>V.</i> | | | | <i>B.</i> | | | |
| March. | JAN. . | 8 7 14 | 8 18 36 | March. | JAN. . | 4 22 21 | 4 15 53 |
| <i>d. h. m.</i> | FEB. . | 6 19 58 | 7 8 58 | <i>d. h. m.</i> | FEB. . | 3 11 8 | 3 9 49 |
| 13 24 26 | MAR. . | 8 8 42 | 8 20 36 | 13 16 53 | MAR. . | 4 23 52 | 5 4 0 |
| | APRIL . | 6 21 26 | 7 5 47 | | APRIL . | { 3 12 36 | 3 21 7 |
| | MAY . | 6 10 10 | 6 13 20 | | ○ | { 18 6 58 | 18 4 40 |
| | JUNE . | { 4 22 51 | 4 20 11 | | MAY . | 8 1 20 | 3 12 11 |
| | ○ | { 19 17 16 | 19 22 57 | | JUNE . | 1 14 4 | 2 0 45 |
| | JULY . | 4 11 38 | 4 3 23 | | JULY . | { 1 2 43 | 1 11 4 |
| | AUG. . | 3 0 22 | { 2 12 5 | | ○ | { 30 15 32 | 30 19 52 |
| | | | { 31 23 14 | | AUG. . | 29 4 16 | 29 4 8 |
| | SEPT. . | 1 13 6 | 30 13 26 | | SEPT. . | 27 17 0 | 27 12 46 |
| | ○ | { 1 1 50 | | | ○ | { 12 11 22 | 12 10 5 |
| | OCT. . | { 30 11 34 | 30 6 32 | | OCT. . | { 27 5 44 | 26 22 31 |
| | NOV. . | 29 3 18 | 29 1 37 | | NOV. . | 25 18 28 | 25 9 42 |
| | ○ | { 13 21 40 | 13 20 1 | | DEC. . | 25 7 12 | 24 22 32 |
| | DEC. . | { 24 16 2 | 28 21 9 | | | | |
| 1248. | JAN. . | 27 4 47 | 27 15 26 | 1251. | JAN. . | 23 19 56 | 23 12 57 |
| <i>E.D.</i> | FEB. . | 25 17 31 | 26 7 11 | <i>A.</i> | FEB. . | 22 8 41 | 22 4 42 |
| 13 5 15 | MAR. . | 26 6 15 | 26 19 52 | 13 22 42 | MAR. . | 23 21 25 | 23 21 13 |
| | APRIL . | 24 18 59 | 25 5 42 | | ○ | { 7 15 47 | 7 21 26 |
| | MAY . | 21 7 43 | 21 13 27 | | APRIL . | { 22 10 9 | 22 13 43 |
| | ○ | { 8 2 5 | 7 23 47 | | MAY . | 21 22 53 | 22 5 21 |
| | JUNE . | { 22 20 27 | 22 20 13 | | JUNE . | 20 11 37 | 20 19 28 |
| | JULY . | 22 9 11 | 22 3 2 | | JULY . | 20 0 21 | 20 7 49 |
| | AUG. . | 20 21 55 | 20 11 2 | | AUG. . | 18 13 5 | 18 18 41 |
| | SEPT. . | 19 10 39 | 18 21 10 | | SEPT. . | 17 1 49 | 17 4 42 |
| | ○ | { 18 23 23 | 18 10 6 | | ○ | { 1 20 11 | 1 9 55 |
| | NOV. . | 17 12 7 | 17 2 0 | | OCT. . | { 16 14 33 | 16 14 36 |
| | ○ | { 2 6 29 | 2 11 34 | | NOV. . | 15 3 17 | 15 0 51 |
| | DEC. . | { 17 0 51 | 16 20 15 | | DEC. . | 14 16 1 | 14 11 44 |
| 1240. | JAN. . | 15 13 33 | 15 15 34 | 1252. | JAN. . | 13 4 45 | 12 23 16 |
| <i>G.</i> | FEB. . | 14 2 19 | 14 10 22 | <i>G.F.</i> | FEB. . | 11 17 29 | 11 11 34 |
| 13 11 4 | MAR. . | 15 15 8 | 16 3 9 | 13 4 31 | MAR. . | { 12 6 13 | 12 0 45 |
| | APRIL . | 14 3 47 | 14 17 6 | | ○ | { 27 0 35 | 27 13 0 |
| | MAY . | 13 16 31 | 14 4 7 | | APRIL . | 10 18 57 | 10 14 55 |
| | JUNE . | 12 5 15 | 12 12 49 | | MAY . | 10 7 41 | 10 5 54 |
| | JULY . | 11 17 59 | 11 20 13 | | JUNE . | 8 20 25 | 8 21 20 |
| | AUG. . | 10 6 43 | 10 3 25 | | JULY . | 8 9 9 | 8 12 31 |
| | SEPT. . | 8 19 27 | 8 11 26 | | AUG. . | 6 21 53 | 7 2 57 |
| | ○ | { 8 8 11 | 7 21 4 | | SEPT. . | { 5 10 37 | 5 16 17 |
| | NOV. . | 6 20 55 | 6 8 58 | | ○ | { 20 4 59 | 19 14 57 |
| | DEC. . | 6 9 39 | 5 23 19 | | OCT. . | 4 23 21 | 5 4 33 |
| | | | | | NOV. . | 3 12 5 | 3 16 15 |
| | | | | | DEC. . | 3 0 49 | 3 3 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|-----------------------|------------------------------------|------------------------------------|
| A.D. 1253. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1256. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 1 13 33 31 2 17 | 1 14 21 31 0 56 | ○ | { 13 23 6 28 17 28 | 13 16 8 29 6 18 | |
| March. <i>d. h. m.</i> 13 10 19 | FEB. . | ... | ... | March. <i>d. h. m.</i> 13 3 46 | FEB. . | 27 6 12 | 27 19 12 |
| | MAR. . | { 1 15 2 31 3 46 | 1 11 27 30 22 12 | | MAR. . | 27 18 56 | 28 5 26 |
| | APRIL | 29 16 30 | 29 9 49 | | APRIL | 26 7 40 | 26 13 34 |
| | MAY . | 29 5 14 | 28 22 46 | | MAY . | 25 20 24 | 25 20 32 |
| | JUNE . | 27 17 58 | 27 13 11 | ○ | JUNE . | 24 9 8 | 24 3 21 |
| | JULY . | 27 6 42 | 27 4 44 | { 9 3 30 23 21 52 | JULY . | 9 9 19 23 11 10 | |
| | AUG. . | 25 19 26 | 25 20 44 | AUG. . | 22 10 36 | 21 21 2 | |
| | SEPT. . | 24 8 10 | 24 12 30 | SEPT. . | 20 23 20 | 20 9 44 | |
| | OCT. . | 23 20 54 | 24 3 25 | OCT. . | 20 12 4 | 20 1 33 | |
| | NOV. . | 22 9 38 | 22 17 12 | NOV. . | 19 0 48 | 18 19 52 | |
| | DEC. . | 21 22 22 | 22 5 42 | DEC. . | 18 13 32 | 18 15 29 | |
| 1254. D. | JAN. . | 20 11 7 | 20 16 55 | 1257. G. | JAN. . | 17 2 17 | 17 10 33 |
| | ○ | { 4 5 29 18 23 51 | 4 7 20 19 2 57 | | FEB. . | 15 15 1 | 16 3 37 |
| 13 16 8 | MAR. . | 20 12 35 | 20 12 4 | 13 9 35 | MAR. . | 17 3 45 | 17 17 48 |
| | APRIL | 19 1 19 | 18 20 55 | | APRIL | 15 16 29 | 16 4 54 |
| | MAY . | 18 14 3 | 18 6 17 | | MAY . | 15 5 13 | 15 13 31 |
| | JUNE . | 17 2 47 | 16 17 5 | | JUNE . | 13 17 57 | 13 20 37 |
| | JULY . | { 16 15 31 31 9 53 | 16 5 56 31 11 56 | | JULY . | 13 6 41 | 13 3 17 |
| | ○ | 15 4 15 | 14 21 1 | | AUG. . | 11 19 25 | 11 10 40 |
| | AUG. . | 13 16 59 | 13 13 50 | | SEPT. . | 10 8 9 | 9 19 43 |
| | SEPT. . | 13 5 43 | 13 7 27 | | OCT. . | 9 20 53 | 9 7 18 |
| | OCT. . | 11 18 27 | 12 0 46 | | NOV. . | { 8 9 37 23 3 59 | 7 21 48 23 10 5 |
| | NOV. . | 11 7 11 | 11 16 46 | ○ | DEC. . | 7 22 21 | 7 14 57 |
| | DEC. . | | | | | | |
| 1255. C. | JAN. . | { 9 19 55 21 14 17 | 10 6 50 24 8 22 | 1258. F. | JAN. . | 6 11 5 | 6 9 51 |
| | ○ | 8 8 39 | 8 18 43 | | FEB. . | 4 23 49 | 5 4 59 |
| 13 21 57 | FEB. . | 9 21 23 | 10 4 35 | 13 15 24 | MAR. . | 6 12 33 | 6 22 49 |
| | MAR. . | 8 10 7 | 8 12 55 | | APRIL | 5 1 17 | 5 14 10 |
| | APRIL | 7 22 51 | 7 20 29 | | MAY . | { 4 14 1 19 8 23 | 5 2 33 19 0 25 |
| | MAY . | 6 11 35 | 6 4 13 | ○ | JUNE . | 3 2 45 | 3 12 20 |
| | JUNE . | { 6 0 19 20 18 41 | 5 13 12 21 2 0 | | JULY . | 2 15 29 | 2 20 19 |
| | JULY . | 4 13 3 | 4 0 25 | | AUG. . | { 1 4 13 30 16 57 | 1 3 36 30 11 14 |
| | AUG. . | 3 1 47 | 2 14 25 | | SEPT. . | 29 5 41 | 28 20 8 |
| | SEPT. . | 2 14 31 | 2 7 6 | | OCT. . | 23 18 25 | 23 6 58 |
| | OCT. . | { 1 3 15 30 15 59 | 1 1 38 30 20 38 | ○ | NOV. . | { 12 12 47 27 7 9 | 12 20 13 26 20 6 |
| | NOV. . | 30 4 43 | 30 14 34 | DEC. . | 26 19 53 | 26 11 31 | |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1259. E. March. d. h. m. 13 21 12 | | d. h. m. | d. h. m. | A.D. 1262. A. March. d. h. m. 13 14 39 | | d. h. m. | d. h. m. |
| | JAN. . | 25 8 38 | 25 4 44 | | JAN. . | 21 23 48 | 22 0 6 |
| | FEB. . | 23 21 22 | 23 22 43 | | FEB. . | 20 12 32 | 20 10 24 |
| | MAR. . | 25 10 6 | 25 16 19 | | ○ { | 7 6 54 | 7 19 21 |
| | APRIL | 23 22 50 | 24 8 22 | | MAR. . | 22 1 16 | 21 20 42 |
| | ○ { | 8 17 12 | 8 12 32 | | APRIL | 20 14 0 | 20 7 33 |
| | MAY . | 23 11 31 | 23 22 11 | | MAY . | 20 2 44 | 19 19 33 |
| | JUNE . | 22 0 18 | 22 9 40 | | JUNE . | 18 15 28 | 18 9 5 |
| | JULY . | 21 13 2 | 21 19 16 | | JULY . | 18 4 12 | 18 0 7 |
| | AUG. . | 20 1 46 | 20 8 52 | | AUG. . | 16 16 56 | 16 16 8 |
| | SEPT. . | 18 14 30 | 18 12 27 | | ○ { | 31 11 18 | 31 2 53 |
| | OCT. . | 18 8 14 | 17 21 46 | | SEPT. . | 15 5 40 | 15 8 21 |
| | ○ { | 1 21 36 | 1 23 10 | | OCT. . | 14 18 24 | 15 0 3 |
| | NOV. . | 16 13 58 | 16 8 19 | | NOV. . | 18 7 8 | 13 14 42 |
| | DEC. . | 16 4 42 | 15 20 17 | | DEC. . | 12 19 52 | 13 4 0 |
| 1260. D.C. 18 8 1 | JAN. . | 14 17 27 | 14 9 40 | 1263. G. 18 20 28 | JAN. . | 11 8 36 | 11 15 53 |
| | FEB. . | 18 6 11 | 13 0 41 | | FEB. . | 9 21 20 | 10 2 22 |
| | MAR. . | 13 18 55 | 13 16 35 | | ○ { | 24 15 41 | 24 20 20 |
| | APRIL | 12 7 39 | 12 8 57 | | MAR. . | 11 10 4 | 11 11 42 |
| | MAY . | 11 20 23 | 12 0 59 | | APRIL | 9 22 48 | 9 20 22 |
| | JUNE . | 10 9 7 | 10 15 55 | | MAY . | 9 11 32 | 9 5 8 |
| | JULY . | 9 21 51 | 10 5 16 | | JUNE . | 8 0 16 | 7 14 56 |
| | AUG. . | 8 10 35 | 8 17 3 | | JULY . | 7 13 0 | 7 2 36 |
| | SEPT. . | 6 23 19 | 7 3 41 | | AUG. . | 6 1 44 | 5 16 35 |
| | OCT. . | 6 12 3 | 6 13 49 | | ○ { | 20 20 6 | 20 19 40 |
| | NOV. . | 5 0 47 | 5 0 8 | | SEPT. . | 4 14 23 | 4 8 45 |
| | DEC. . | 4 13 31 | 4 10 41 | | OCT. . | 4 3 12 | 4 2 18 |
| | | | | | NOV. . | 2 15 56 | 2 20 9 |
| 1261. B. 18 8 50 | JAN. . | 8 2 15 | 2 21 51 | | DEC. . | 2 4 40 | 2 13 8 |
| | FEB. . | 1 14 59 | 1 9 31 | | { | 31 17 24 | ... |
| | MAR. . | 8 3 48 | 2 22 2 | 1264. F.E. 18 2 17 | JAN. . | 80 6 8 | 30 17 19 |
| | ○ { | 17 22 5 | 18 11 37 | | FEB. . | 28 18 52 | 29 4 2 |
| | APRIL | 1 16 27 | 1 11 22 | | MAR. . | 29 7 37 | 29 12 56 |
| | MAY . | 1 5 11 | 1 1 43 | | APRIL | 27 20 21 | 27 20 36 |
| | JUNE . | 29 6 39 | 29 8 13 | | MAY . | 27 9 5 | 27 3 58 |
| | JULY . | 28 19 23 | 28 23 14 | | JUNE . | 25 21 49 | 25 12 5 |
| | AUG. . | 27 8 7 | 27 13 24 | | JULY . | 25 10 33 | 24 22 2 |
| | ○ { | 11 2 29 | 10 12 49 | | AUG. . | 23 23 17 | 23 10 33 |
| | SEPT. . | 25 20 51 | 26 2 30 | | SEPT. . | 22 12 1 | 22 2 8 |
| | OCT. . | 25 9 35 | 25 14 45 | | OCT. . | 22 0 45 | 21 20 2 |
| | NOV. . | 23 22 19 | 24 2 20 | | NOV. . | 20 13 29 | 20 15 8 |
| | DEC. . | 23 11 3 | 23 13 26 | | DEC. . | 20 2 13 | 20 9 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|-----------|------------------------------------|------------------------------------|
| A.D. 1265. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1268. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | ○ | 3 20 35 | 3 14 10 | A.G. March. | JAN. . | 16 6 8 | 16 0 2 |
| March. | JAN. . | { 18 14 57 | 19 2 53 | <i>d. h. m.</i> | FEB. . | 14 18 52 | 14 17 32 |
| <i>d. h. m.</i> | FEB. . | 17 3 41 | 17 17 11 | 13 1 32 | MAR. . | 15 7 36 | 15 11 15 |
| 13 8 5 | MAR. . | 18 16 26 | 19 4 37 | | APRIL | { 13 20 20 | 14 4 2 |
| | APRIL | 17 5 10 | 17 13 35 | ○ | | { 28 14 42 | 28 12 19 |
| | MAY . | 16 17 54 | 16 20 54 | MAY . | | 13 9 4 | 13 18 59 |
| | JUNE . | { 15 6 33 | 15 3 37 | JUNE . | | 11 21 48 | 12 7 39 |
| | ○ | { 30 1 0 | 30 5 31 | JULY . | | 11 10 32 | 11 18 14 |
| | JULY . | 14 19 22 | 14 10 47 | AUG. . | | 9 23 16 | 10 3 25 |
| | AUG. . | 13 8 6 | 12 19 32 | SEPT. . | | 8 12 0 | 8 12 8 |
| | SEPT. . | 11 20 50 | 11 6 49 | OCT. . | { 8 0 44 | 7 21 13 | |
| | OCT. . | 11 9 34 | 10 21 9 | ○ | { 22 19 6 | 22 17 42 | |
| | Nov. . | 9 22 18 | 9 14 24 | Nov. . | | 6 13 23 | 6 7 15 |
| | DEC. . | { 9 11 2 | 9 9 35 | DEC. . | | 6 2 12 | 5 18 32 |
| | ○ | { 21 5 24 | 24 5 1 | | | | |
| 1266. | JAN. . | 7 23 46 | 8 5 7 | 1269. | JAN. . | 4 14 56 | 4 7 10 |
| C. | FEB. . | 6 12 30 | 6 23 20 | F. | FEB. . | 3 3 40 | 2 21 10 |
| 13 13 54 | MAR. . | 8 1 14 | 8 14 57 | 13 7 21 | MAR. . | 4 16 24 | 4 12 19 |
| | APRIL | 6 13 58 | 7 3 28 | | APRIL | { 3 5 8 | 3 4 15 |
| | MAY . | 6 2 42 | 6 13 11 | ○ | | { 17 23 30 | 18 5 15 |
| | JUNE . | { 4 15 26 | 4 20 53 | MAY . | | 2 17 52 | 2 20 21 |
| | ○ | { 19 9 48 | 19 6 13 | JUNE . | | { 1 6 36 | 1 11 52 |
| | JULY . | 4 4 10 | 4 3 40 | | | { 30 19 20 | { 1 2 7 |
| | AUG. . | 2 16 54 | { 2 10 37 | JULY . | | 30 8 4 | { 30 14 52 |
| | SEPT. . | { 1 5 38 | { 31 18 50 | AUG. . | | 28 20 48 | 29 2 16 |
| | | { 30 18 22 | 30 5 10 | SEPT. . | | 27 9 32 | 27 12 50 |
| | OCT. . | 30 7 6 | 29 18 15 | ○ | | { 12 8 54 | 11 17 30 |
| | Nov. . | 28 19 50 | 28 10 10 | OCT. . | | { 26 22 16 | 26 23 12 |
| | ○ | { 13 14 12 | 13 20 27 | Nov. . | | 25 11 0 | 25 9 46 |
| | DEC. . | { 28 8 34 | 28 4 17 | DEC. . | | 24 23 44 | 24 20 40 |
| 1267. | JAN. . | 26 21 19 | 26 23 23 | 1270. | JAN. . | 23 12 29 | 23 7 58 |
| B. | FEB. . | 25 10 3 | 25 17 54 | E. | FEB. . | 22 1 13 | 21 19 46 |
| 13 19 43 | MAR. . | 26 22 47 | 27 10 28 | 13 13 10 | MAR. . | 23 13 57 | 23 8 21 |
| | APRIL | 25 11 31 | 26 0 13 | ○ | | { 7 8 19 | 7 20 43 |
| | MAY . | 25 0 15 | 25 11 18 | APRIL | | { 22 2 41 | 21 21 55 |
| | ○ | { 8 13 37 | 8 9 42 | MAY . | | 21 15 25 | 21 12 30 |
| | JUNE . | { 23 12 59 | 23 20 7 | JUNE . | | 20 4 9 | 20 3 45 |
| | JULY . | 23 1 43 | 23 3 45 | JULY . | | 19 16 58 | 19 19 8 |
| | AUG. . | 21 14 27 | 21 11 14 | AUG. . | | 18 5 37 | 18 9 58 |
| | SEPT. . | 20 3 11 | 19 19 35 | SEPT. . | | 16 18 21 | 16 23 54 |
| | OCT. . | 19 15 55 | 19 5 30 | ○ | | { 1 12 43 | { 30 22 51 |
| | Nov. . | 18 4 39 | 17 17 31 | OCT. . | | { 16 7 5 | 16 12 50 |
| | DEC. . | 17 17 23 | 17 7 47 | Nov. . | | 14 19 49 | 15 0 53 |
| | | | | DEC. . | | 14 8 33 | 14 12 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1271. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1274. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>d.</i> | | | | <i>o.</i> | | | |
| March. | JAN. . | 12 21 18 | 12 23 16 | March. | JAN. . | 9 12 28 | 9 22 48 |
| <i>d. h. m.</i> | FEB. . | 11 10 2 | 11 9 35 | <i>d. h. m.</i> | ○ | 24 6 50 | 24 0 42 |
| 13 18 58 | MAR. . | 12 22 46 | 12 19 35 | 18 12 25 | FEB. . | 8 1 12 | 8 14 30 |
| | APRIL . | 11 11 30 | 11 5 47 | | MAR. . | 9 13 56 | 10 3 16 |
| | MAY . | 11 0 14 | 10 16 52 | | APRIL . | 8 2 40 | 8 13 16 |
| | JUNE . | 9 12 58 | 9 5 27 | | MAY . | 7 15 24 | 7 21 12 |
| | JULY . | 9 1 42 | 8 19 42 | | JUNE . | 6 4 8 | 6 4 1 |
| | AUG. . | 7 14 26 | 7 11 23 | | JULY . | 5 16 52 | 5 10 47 |
| | SEPT. . | 6 3 10 | 6 3 49 | | ○ | 20 11 14 | 20 16 2 |
| | OCT. . | 5 15 54 | 5 20 8 | | AUG. . | 4 5 36 | 3 18 33 |
| | NOV. . | 4 4 38 | 4 11 38 | | SEPT. . | 2 18 20 | 2 4 36 |
| | DEC. . | 3 17 22 | 4 1 51 | | OCT. . | 2 7 4 | 1 17 29 |
| | | | | | | 31 19 43 | 31 9 25 |
| 1272. | JAN. . | 2 6 6 | 2 14 31 | 1275. | JAN. . | 28 10 0 | 23 18 25 |
| <i>d.</i> | | | | <i>p.</i> | FEB. . | 26 22 44 | 27 11 23 |
| 13 0 47 | FEB. . | 15 13 12 | 15 14 56 | 13 18 14 | MAR. . | 28 11 28 | 23 1 23 |
| | MAR. . | 1 7 34 | 1 11 21 | | APRIL . | 27 0 12 | 27 12 21 |
| | APRIL . | 20 20 18 | 20 20 8 | | MAY . | 26 12 56 | 26 20 55 |
| | MAY . | 28 21 46 | 28 18 25 | | JUNE . | 25 1 40 | 25 4 2 |
| | JUNE . | 27 10 30 | 26 23 56 | | JULY . | 24 14 24 | 24 10 50 |
| | JULY . | 26 23 14 | 26 12 42 | | AUG. . | 23 8 8 | 22 18 25 |
| | ○ | 10 17 39 | 10 19 31 | | SEPT. . | 21 15 52 | 21 3 43 |
| | AUG. . | 25 11 58 | 25 3 54 | | OCT. . | 21 4 36 | 20 15 29 |
| | SEPT. . | 24 0 42 | 23 21 8 | | NOV. . | 19 17 20 | 19 6 1 |
| | OCT. . | 23 13 26 | 23 15 7 | | ○ | 4 11 42 | 4 18 49 |
| | NOV. . | 22 2 10 | 22 8 54 | | DEC. . | 19 6 4 | 18 28 5 |
| | DEC. . | 21 14 54 | 22 1 14 | | | | |
| 1273. | JAN. . | 20 3 39 | 20 15 25 | 1276. | JAN. . | 17 18 49 | 17 17 46 |
| <i>a.</i> | ○ | 3 22 1 | 3 16 24 | <i>k.d.</i> | FEB. . | 16 7 38 | 16 12 36 |
| 13 0 30 | FEB. . | 14 16 23 | 19 3 10 | 13 0 3 | MAR. . | 16 20 17 | 17 6 9 |
| | MAR. . | 20 5 7 | 20 12 46 | | APRIL . | 15 9 1 | 15 21 18 |
| | APRIL . | 18 17 51 | 18 20 46 | | MAY . | 14 21 45 | 15 9 41 |
| | MAY . | 18 6 35 | 18 4 0 | | ○ | 29 16 7 | 29 7 24 |
| | JUNE . | 16 19 19 | 16 11 30 | | JUNE . | 18 10 29 | 18 19 38 |
| | JULY . | 16 3 3 | 15 20 22 | | AUG. . | 12 23 18 | 13 3 48 |
| | ○ | 31 2 25 | 31 9 14 | | JULY . | 11 11 57 | 11 11 17 |
| | AUG. . | 14 20 47 | 14 7 34 | | SEPT. . | 10 0 41 | 9 19 17 |
| | SEPT. . | 13 9 31 | 12 21 42 | | OCT. . | 9 18 25 | 9 4 31 |
| | OCT. . | 12 22 15 | 12 14 38 | | NOV. . | 8 2 9 | 7 15 33 |
| | NOV. . | 11 10 59 | 11 9 25 | | ○ | 22 20 31 | 23 4 32 |
| | DEC. . | 10 23 48 | 11 4 41 | | DEC. . | 7 14 58 | 7 4 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1277. c. March. d. h. m. 13 5 51 | | d. h. m. | d. h. m. | A.D. 1280. G.F. March. d. h. m. 12 23 18 | | d. h. m. | d. h. m. |
| | JAN. . | 6 3 37 | 5 19 51 | | JAN. . | 3 18 48 | 3 22 24 |
| | FEB. . | 4 16 21 | 4 12 35 | | FEB. . | 2 7 32 | 2 8 51 |
| | MAR. . | 6 5 5 | 6 6 6 | | MAR. . | 2 20 15 | 2 18 43 |
| | APRIL | 4 17 49 | 4 23 17 | | ○ | { 17 14 37 | 18 2 46 |
| | MAY . | { 4 6 33 | 4 15 8 | | APRIL | { 1 8 59 | 1 4 30 |
| | ○ | { 19 0 55 | 18 19 57 | | | { 30 21 43 | 30 14 48 |
| | JUNE . | 2 19 17 | 3 4 58 | | MAY . | 30 10 27 | 30 2 20 |
| | JULY . | { 2 8 1 | 2 16 40 | | JUNE . | 28 23 11 | 28 15 39 |
| | AUG. . | 30 9 29 | { 30 11 42 | | JULY . | 28 11 55 | 28 6 42 |
| | SEPT. . | 28 22 13 | 28 20 45 | | AUG. . | 27 0 39 | 26 23 0 |
| | OCT. . | 28 10 57 | 28 6 26 | | ○ | { 10 19 1 | 10 10 54 |
| | ○ | { 12 5 19 | 12 6 59 | | SEPT. . | { 25 13 23 | 25 15 44 |
| | NOV. . | { 26 23 41 | 26 17 9 | | OCT. . | 25 2 7 | 25 8 1 |
| | DEC. . | 26 12 25 | 26 5 4 | | NOV. . | 23 14 51 | 23 23 10 |
| | | | | | DEC. . | 23 3 35 | 23 12 45 |
| 1278. B. 13 11 40 | JAN. . | 25 1 10 | 24 18 13 | 1281. E. 13 5 7 | JAN. . | 21 16 20 | 22 0 39 |
| | FEB. . | 23 13 54 | 23 8 32 | | FEB. . | 20 5 4 | 20 10 55 |
| | MAR. . | 25 2 33 | 24 23 51 | | ○ | { 6 23 26 | 7 3 42 |
| | APRIL | 23 15 22 | 23 15 42 | | MAR. . | { 21 17 48 | 21 19 52 |
| | MAY . | 23 4 6 | 23 7 29 | | APRIL | 20 6 32 | 20 4 5 |
| | JUNE . | 21 16 50 | 21 22 28 | | MAY . | 19 19 16 | 19 12 27 |
| | JULY . | 21 5 34 | 21 12 8 | | JUNE . | 18 8 0 | 17 21 56 |
| | AUG. . | 19 18 18 | 20 0 23 | | JULY . | 17 20 44 | 17 9 23 |
| | SEPT. . | 18 7 2 | 18 11 35 | | AUG. . | { 16 9 23 | 15 23 28 |
| | OCT. . | 17 19 46 | 17 22 15 | | ○ | { 31 3 50 | 31 3 35 |
| | NOV. . | 16 8 30 | 16 8 53 | | SEPT. . | 14 22 12 | 14 15 51 |
| | DEC. . | 15 21 14 | 15 19 40 | | OCT. . | 14 10 56 | 14 9 49 |
| 1279. A. 13 17 29 | JAN. . | 14 9 58 | 14 6 40 | 1282. D. 13 10 56 | JAN. . | 11 1 8 | 11 12 52 |
| | FEB. . | 12 22 42 | 12 17 59 | | FEB. . | 9 13 52 | 10 1 48 |
| | MAR. . | { 14 11 27 | 14 5 52 | | MAR. . | 11 2 37 | 11 12 19 |
| | ○ | { 29 5 49 | 29 19 23 | | APRIL | 9 15 21 | 9 20 52 |
| | APRIL | 13 0 11 | 12 18 36 | | MAY . | 9 4 5 | 9 4 13 |
| | MAY . | 12 12 55 | 12 8 27 | | JUNE . | 7 16 49 | 7 11 21 |
| | JUNE . | 11 1 39 | 10 23 17 | | JULY . | 7 5 33 | 6 19 19 |
| | JULY . | 10 14 23 | 10 14 44 | | AUG. . | 5 18 17 | 5 5 15 |
| | AUG. . | 9 3 7 | 9 6 3 | | SEPT. . | 4 7 1 | 3 17 55 |
| | SEPT. . | { 7 15 51 | 7 20 45 | | OCT. . | 3 19 45 | 3 9 36 |
| | ○ | { 22 10 13 | 21 20 43 | | NOV. . | 2 8 29 | 2 3 45 |
| | OCT. . | 7 4 35 | 7 10 29 | | DEC. . | { 1 21 13 | 1 23 5 |
| | NOV. . | 5 17 19 | 5 23 17 | | | { 31 9 57 | 31 18 1 |
| | DEC. . | 5 6 3 | 5 11 12 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1283. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1286. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | ○ | { 15 4 19 | 14 22 55 | F. | JAN. . | 26 13 51 | 26 8 6 |
| | JAN. . | { 29 22 41 | 30 11 2 | March. | FEB. . | 25 2 35 | 25 1 5 |
| March. | FEB. . | 28 11 25 | | <i>d. h. m.</i> | MAR. . | 26 15 19 | 26 18 20 |
| <i>d. h. m.</i> | MAR. . | 30 0 9 | { 1 1 15 | 13 10 11 | APRIL . | 25 4 3 | 25 10 48 |
| 13 16 44 | APRIL | 28 12 53 | { 30 12 29 | ○ | { 9 22 25 | 9 19 53 | |
| | MAY . | 23 1 37 | 28 21 14 | MAY . | { 24 16 47 | 25 1 41 | |
| | JUNE . | 26 14 21 | 28 4 25 | JUNE . | 23 5 31 | 23 14 30 | |
| | ○ | { 11 8 43 | 26 11 1 | JULY . | 22 18 15 | 23 1 25 | |
| | JULY . | { 26 3 5 | 11 12 4 | AUG. . | 21 6 59 | 21 11 3 | |
| | AUG. . | 24 15 49 | 25 18 14 | SEPT. . | 19 19 43 | 19 20 16 | |
| | SEPT. . | 23 4 33 | 24 3 7 | OCT. . | 19 8 27 | 19 5 46 | |
| | OCT. . | 22 17 17 | 22 14 32 | ○ | { 3 2 49 | 3 1 24 | |
| | NOV. . | 21 6 1 | 22 5 2 | NOV. . | { 17 21 11 | 17 16 4 | |
| | DEC. . | 20 18 45 | 20 22 21 | DEC. . | 17 9 55 | 17 3 22 | |
| | | | 20 17 33 | | | | |
| 1284. | ○ | { 4 13 8 | 4 13 57 | 1287. | JAN. . | 15 22 40 | 15 15 47 |
| B.A. | JAN. . | { 19 7 30 | 19 13 1 | E. | FEB. . | 14 11 24 | 14 5 16 |
| | FEB. . | 17 20 14 | 18 7 5 | 13 16 0 | MAR. . | 16 0 8 | 15 19 49 |
| 12 22 33 | MAR. . | 18 8 58 | 18 22 33 | APRIL | { 14 12 52 | 14 11 12 | |
| | APRIL | 16 21 42 | 17 10 57 | ○ | { 29 7 14 | 29 12 58 | |
| | MAY . | 16 10 26 | 16 20 31 | MAY . | 14 1 36 | 14 2 56 | |
| | JUNE . | { 14 23 10 | 15 4 16 | JUNE . | 12 14 20 | 12 18 21 | |
| | ○ | { 29 17 32 | 29 12 48 | JULY . | 12 3 4 | 12 8 49 | |
| | JULY . | 14 11 54 | 14 11 10 | AUG. . | 10 15 43 | 10 22 0 | |
| | AUG. . | 13 0 38 | 12 18 20 | SEPT. . | 9 4 32 | 9 9 57 | |
| | SEPT. . | 11 13 22 | 11 2 49 | OCT. . | { 8 17 16 | 8 21 7 | |
| | OCT. . | 11 2 6 | 10 13 22 | ○ | { 23 11 38 | 23 1 14 | |
| | NOV. . | 9 14 50 | 9 2 34 | NOV. . | 7 6 0 | 7 7 56 | |
| | DEC. . | { 9 3 34 | 8 18 26 | DEC. . | 6 18 44 | 6 18 48 | |
| | ○ | { 23 21 56 | 24 5 19 | | | | |
| 1285. | JAN. . | 7 16 19 | 7 12 19 | 1288. | JAN. . | 5 7 29 | 5 5 36 |
| G. | FEB. . | 6 5 8 | 6 7 6 | D.C. | FEB. . | 3 20 13 | 3 16 36 |
| 13 4 22 | MAR. . | 7 17 47 | 8 1 17 | 12 21 49 | MAR. . | 4 8 57 | 4 3 53 |
| | APRIL | 6 6 31 | 6 17 33 | APRIL | { 2 21 41 | 2 15 50 | |
| | MAY . | 5 19 15 | 6 7 21 | ○ | { 17 16 3 | 18 4 21 | |
| | JUNE . | { 4 7 59 | 4 18 25 | MAY . | { 2 10 25 | 2 4 50 | |
| | ○ | { 19 2 21 | 18 16 32 | { 31 23 9 | 31 19 3 | | |
| | JULY . | 3 20 43 | 4 3 25 | JUNE . | 30 11 53 | 30 10 14 | |
| | AUG. . | { 2 9 27 | 2 11 20 | JULY . | 30 0 37 | 30 1 47 | |
| | SEPT. . | { 31 22 11 | 31 19 10 | AUG. . | 23 13 21 | 23 17 5 | |
| | OCT. . | 30 10 55 | 30 3 53 | SEPT. . | 27 2 5 | 27 7 37 | |
| | NOV. . | 29 23 39 | 29 14 5 | ○ | { 11 20 27 | 11 6 54 | |
| | DEC. . | 28 12 23 | 28 2 10 | OCT. . | { 26 14 49 | 26 21 11 | |
| | | 23 1 7 | 27 16 16 | NOV. . | 25 3 33 | 25 9 44 | |
| | | | | DEC. . | 24 16 17 | 24 21 21 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1289. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1292. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 23 5 1 | 23 8 6 | | JAN. . | 20 20 11 | 21 6 53 |
| <i>d. h. m.</i> | FEB. . | 21 17 45 | 21 18 4 | | ○ | { 4 14 33 | 4 9 12 |
| 13 3 37 | MAR. . | 23 6 29 | 23 3 35 | March. | FEB. . | { 19 8 55 | 19 22 32 |
| | APRIL | 21 19 13 | 21 13 16 | <i>d. h. m.</i> | MAR. . | 19 21 39 | 20 11 9 |
| | MAY . | 21 7 57 | 20 23 51 | 12 21 4 | APRIL | 18 10 23 | 18 20 57 |
| | JUNE . | 19 20 41 | 19 12 6 | | MAY . | 17 23 7 | 18 4 43 |
| | JULY . | 19 9 25 | 19 2 16 | | JUNE . | 16 11 51 | 16 11 26 |
| | AUG. . | 17 22 9 | 17 18 8 | | JULY . | { 16 0 35 | 15 18 11 |
| | SEPT. . | 16 10 53 | 16 10 59 | | ○ | { 30 18 57 | 30 22 47 |
| | OCT. . | 15 23 37 | 16 3 52 | | AUG. . | 14 18 19 | 14 2 18 |
| | NOV. . | 14 12 21 | 14 19 55 | | SEPT. . | 13 2 3 | 12 12 21 |
| | DEC. . | 14 1 5 | 14 10 30 | | OCT. . | 12 14 47 | 12 1 22 |
| | | | | | NOV. . | 11 8 31 | 10 17 25 |
| 1290. | JAN. . | 12 13 50 | 12 23 19 | | DEC. . | 10 16 15 | 10 11 49 |
| A. | FEB. . | { 11 2 34 | 11 10 16 | 1293. | JAN. . | 9 5 0 | 9 7 20 |
| | ○ | { 25 20 56 | 25 22 25 | D. | FEB. . | 7 17 41 | 8 2 11 |
| 13 9 26 | MAR. . | 12 15 18 | 12 19 40 | 13 2 53 | MAR. . | 9 6 28 | 9 18 59 |
| | APRIL | 11 4 2 | 11 3 56 | | APRIL | 7 19 12 | 8 8 50 |
| | MAY . | 10 16 46 | 10 11 56 | | MAY . | 7 7 56 | 7 19 43 |
| | JUNE . | 9 5 30 | 8 20 34 | | JUNE . | 5 20 40 | 6 4 16 |
| | JULY . | 8 18 14 | 8 6 52 | | JULY . | 5 9 24 | 5 11 29 |
| | AUG. . | { 7 6 58 | 6 19 36 | | AUG. . | 3 22 8 | 3 18 30 |
| | ○ | { 22 1 20 | 22 3 19 | | SEPT. . | 2 10 52 | 2 2 20 |
| | SEPT. . | 5 19 42 | 5 10 57 | | OCT. . | { 1 23 36 | 1 11 54 |
| | OCT. . | 5 8 26 | 5 4 25 | | { 31 12 20 | 30 23 49 | |
| | NOV. . | 3 21 10 | 3 22 55 | | NOV. . | 30 1 4 | 29 14 22 |
| | DEC. . | 3 9 54 | 3 17 6 | | ○ | { 14 19 26 | 15 3 39 |
| | | | | | DEC. . | { 29 13 48 | 29 7 15 |
| 1291. | JAN. . | { 1 22 38 | 2 9 41 | 1294. | JAN. . | 28 2 32 | 28 1 35 |
| G. | FEB. ○ | { 31 11 22 | 31 23 53 | C. | FEB. . | 26 15 16 | 26 20 2 |
| | | 15 5 44 | 15 0 20 | | MAR. . | 28 4 0 | 28 13 18 |
| 13 15 15 | MAR. . | { 2 0 6 | 2 11 28 | 13 8 42 | APRIL | 26 16 44 | 27 4 18 |
| | | { 31 12 50 | 31 20 47 | | MAY . | 26 5 28 | 26 16 40 |
| | APRIL | 30 1 34 | 30 4 23 | | ○ | { 9 23 50 | 9 14 22 |
| | MAY . | 29 14 18 | 29 11 26 | | JUNE . | { 21 18 12 | 25 2 41 |
| | JUNE . | 28 3 2 | 27 18 43 | | JULY . | 24 6 56 | 24 11 9 |
| | JULY . | 27 15 46 | 27 3 36 | | AUG. . | 22 19 40 | 22 19 6 |
| | ○ | { 11 10 8 | 11 16 30 | | SEPT. . | 21 8 24 | 21 3 29 |
| | AUG. . | { 26 4 30 | 25 14 51 | | OCT. . | 20 21 8 | 20 13 2 |
| | SEPT. . | 24 17 14 | 24 5 8 | | NOV. . | 19 9 52 | 19 0 13 |
| | OCT. . | 24 5 58 | 23 22 15 | | ○ | { 4 4 14 | 4 12 52 |
| | NOV. . | 22 18 42 | 22 17 18 | | DEC. . | { 18 22 36 | 18 13 16 |
| | DEC. . | 22 7 26 | 22 12 44 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1295. B. March. d. h. m. 13 14 30 | | d. h. m. | d. h. m. | A.D. 1298. F. March. d. h. m. 13 7 57 | | d. h. m. | d. h. m. |
| | JAN. . | 17 11 21 | 17 4 17 | | JAN. . | 14 2 31 | 14 7 16 |
| | FEB. . | 16 0 5 | 15 20 22 | | FEB. . | 12 15 15 | 12 17 29 |
| | MAR. . | 17 12 49 | 17 13 21 | | MAR. . | 14 3 59 | 14 2 57 |
| | APRIL | 16 1 33 | 16 6 8 | | ○ | 28 22 21 | 29 10 5 |
| | MAY . | 15 14 17 | 15 21 49 | | APRIL | 12 16 43 | 12 12 12 |
| | ○ | 30 8 39 | 30 3 20 | | MAY . | 12 5 27 | 11 21 59 |
| | JUNE . | 14 3 1 | 14 11 43 | | JUNE . | 10 18 11 | 10 9 10 |
| | JULY . | 13 15 45 | 13 23 41 | | JULY . | 10 6 55 | 9 22 17 |
| | AUG. . | 12 4 29 | 12 10 5 | | AUG. . | 8 19 39 | 8 13 23 |
| | SEPT. . | 10 17 13 | 10 19 39 | | SEPT. . | 7 8 23 | 7 6 1 |
| | OCT. . | 10 5 57 | 10 5 10 | | ○ | 22 2 45 | 21 19 4 |
| | NOV. . | 8 18 41 | 8 15 11 | | OCT. . | 6 21 7 | 6 23 15 |
| | ○ | 23 18 3 | 23 14 56 | | NOV. . | 5 9 51 | 5 16 6 |
| | DEC. . | 8 7 25 | 8 2 3 | | DEC. . | 4 22 35 | 5 7 41 |
| 1296. A.G. 12 20 19 | JAN. . | 6 20 10 | 6 13 49 | 1299. D. 13 13 46 | JAN. . | 3 11 20 | 3 21 30 |
| | FEB. . | 5 8 54 | 5 2 34 | | FEB. . | 2 0 4 | 2 9 20 |
| | MAR. . | 5 21 38 | 5 16 17 | | MAR. . | 3 12 48 | 3 19 20 |
| | APRIL | 4 10 22 | 4 6 59 | | ○ | 18 7 10 | 18 10 54 |
| | MAY . | 3 23 6 | 3 22 24 | | APRIL | 2 1 32 | 2 3 54 |
| | ○ | 18 17 28 | 18 20 16 | | MAY . | 1 14 16 | 1 11 42 |
| | JUNE . | 2 11 50 | 2 13 59 | | ○ | 31 3 0 | 30 19 44 |
| | JULY . | 2 0 34 | 2 5 1 | | JUNE . | 29 15 44 | 29 4 58 |
| | ○ | 31 13 18 | 31 19 3 | | JULY . | 29 4 23 | 28 16 24 |
| | AUG. . | 30 2 2 | 30 7 51 | | AUG. . | 27 17 12 | 27 6 29 |
| | SEPT. . | 28 14 46 | 28 19 33 | | ○ | 11 11 34 | 11 11 37 |
| | OCT. . | 28 3 30 | 28 6 50 | | SEPT. . | 26 5 56 | 25 23 7 |
| | NOV. . | 26 16 14 | 26 17 46 | | OCT. . | 25 18 40 | 25 17 28 |
| | DEC. . | 26 4 58 | 26 4 38 | | NOV. . | 24 7 24 | 24 12 10 |
| 1297. F. 18 2 8 | JAN. . | 24 17 42 | 24 15 26 | 1300. C.D. 12 19 35 | DEC. . | 23 20 8 | 24 5 49 |
| | FEB. . | 23 6 26 | 23 2 18 | | JAN. . | 22 8 52 | 22 21 18 |
| | MAR. . | 24 19 10 | 24 13 35 | | FEB. . | 20 21 36 | 21 10 8 |
| | ○ | 8 13 32 | 9 2 58 | | MAR. . | 21 10 20 | 21 20 24 |
| | APRIL | 28 7 54 | 23 1 44 | | APRIL | 19 23 4 | 20 4 39 |
| | MAY . | 22 20 33 | 22 15 7 | | MAY . | 19 11 48 | 19 11 44 |
| | JUNE . | 21 9 22 | 21 5 45 | | JUNE . | 18 0 32 | 17 18 41 |
| | JULY . | 20 22 6 | 20 21 15 | | JULY . | 17 13 16 | 17 2 36 |
| | AUG. . | 19 10 50 | 19 12 57 | | AUG. . | 16 2 0 | 15 12 34 |
| | SEPT. . | 17 23 34 | 18 4 12 | | SEPT. . | 14 14 44 | 14 1 21 |
| | ○ | 2 17 56 | 2 4 45 | | OCT. . | 14 3 28 | 13 17 13 |
| | OCT. . | 17 12 18 | 17 18 34 | | NOV. . | 12 16 12 | 12 11 33 |
| | NOV. . | 16 1 2 | 16 7 52 | | DEC. . | 12 4 56 | 12 7 3 |
| | DEC. . | 15 13 46 | 15 20 6 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1301. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1304. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. March. | | | |
| March. | JAN. . | 10 17 41 | 11 2 5 | <i>d. h. m.</i> | JAN. . | 8 8 51 | 8 0 44 |
| <i>d. h. m.</i> | ○ | 25 12 3 | 25 7 35 | 12 18 50 | FEB. . | 6 21 35 | 6 16 6 |
| 13 1 23 | FEB. . | 9 6 25 | 9 19 4 | | MAR. . | 7 10 19 | 7 8 31 |
| | MAR. . | 10 19 9 | 11 9 9 | | APRIL | 5 23 3 | 6 1 18 |
| | APRIL | 9 7 53 | 9 20 13 | | MAY . | 5 11 47 | 5 17 30 |
| | MAY . | 8 20 37 | 9 4 48 | | ○ | 20 6 9 | 20 3 22 |
| | JUNE . | 7 9 21 | 7 11 52 | | JUNE . | 4 0 31 | 4 8 19 |
| | JULY . | 6 22 5 | 6 18 30 | | JULY . | 3 13 15 | 3 21 22 |
| | ○ | 21 16 27 | 21 18 40 | | AUG. . | 2 1 59 | 2 8 41 |
| | AUG. . | 5 10 49 | 5 1 49 | | SEPT. . | 31 14 43 | 31 18 49 |
| | SEPT. . | 3 23 33 | 3 10 50 | | OCT. . | 30 3 27 | 30 4 31 |
| | OCT. . | 3 12 17 | 2 22 27 | | ○ | 29 16 11 | 29 14 26 |
| | NOV. . | 2 1 1 | 1 13 4 | | NOV. . | 13 10 33 | 13 9 18 |
| | DEC. . | 1 13 45 | 1 6 25 | | ○ | 28 4 55 | 28 0 58 |
| | ○ | 31 2 29 | 31 1 30 | | DEC. . | 27 17 39 | 27 12 15 |
| 1302. | | | | 1305. | | | |
| G. | JAN. . | 14 20 52 | 14 22 53 | c. | JAN. . | 26 6 23 | 26 0 20 |
| 13 7 12 | FEB. . | 29 15 14 | 29 20 49 | 13 0 39 | FEB. . | 24 19 7 | 24 13 16 |
| | MAR. . | 28 3 58 | 28 14 42 | | MAR. . | 26 7 51 | 26 3 12 |
| | APRIL | 29 16 42 | 30 6 0 | | APRIL | 21 20 35 | 24 18 2 |
| | MAY . | 28 5 26 | 28 18 17 | | ○ | 9 14 57 | 9 20 33 |
| | JUNE . | 27 18 10 | 28 3 53 | | MAY . | 24 9 19 | 24 9 26 |
| | ○ | 26 6 54 | 26 11 39 | | JUNE . | 22 22 3 | 23 0 49 |
| | JULY . | 11 1 16 | 10 19 14 | | JULY . | 22 10 47 | 22 15 32 |
| | ○ | 25 19 38 | 25 18 45 | | AUG. . | 20 23 31 | 21 5 12 |
| | AUG. . | 24 8 22 | 24 2 11 | | SEPT. . | 19 12 15 | 19 17 45 |
| | SEPT. . | 22 21 6 | 22 10 56 | | OCT. . | 19 0 59 | 19 5 28 |
| | OCT. . | 22 9 50 | 21 21 43 | | ○ | 2 19 21 | 2 9 8 |
| | NOV. . | 20 22 31 | 20 11 0 | | NOV. . | 17 13 43 | 17 16 42 |
| | DEC. . | 20 11 18 | 20 2 43 | | DEC. . | 17 2 27 | 17 8 41 |
| 1303. | | | | 1306. | | | |
| F. | JAN. . | 4 5 40 | 4 14 9 | b. | JAN. . | 15 15 12 | 15 14 23 |
| 13 13 1 | FEB. . | 19 0 2 | 18 20 17 | 13 6 23 | FEB. . | 14 8 56 | 14 1 6 |
| | MAR. . | 17 12 46 | 17 14 39 | | MAR. . | 15 16 40 | 15 11 50 |
| | APRIL | 19 1 30 | 19 8 29 | | APRIL | 14 5 24 | 13 23 13 |
| | MAY . | 17 14 14 | 18 0 38 | | ○ | 28 28 46 | 29 11 43 |
| | JUNE . | 17 2 58 | 17 14 17 | | MAY . | 18 18 8 | 18 11 41 |
| | ○ | 15 15 42 | 16 1 28 | | JUNE . | 12 6 52 | 12 1 34 |
| | JULY . | 30 10 4 | 29 23 24 | | JULY . | 11 19 36 | 11 13 41 |
| | ○ | 15 4 26 | 15 10 43 | | AUG. . | 10 8 20 | 10 8 29 |
| | AUG. . | 13 17 10 | 13 18 59 | | SEPT. . | 8 21 4 | 9 0 13 |
| | SEPT. . | 12 5 54 | 12 3 15 | | ○ | 8 9 48 | 8 15 23 |
| | OCT. . | 11 18 38 | 11 12 18 | | NOV. . | 23 4 10 | 22 15 6 |
| | NOV. . | 10 7 22 | 9 22 45 | | DEC. . | 6 22 32 | 7 5 31 |
| | DEC. . | 9 20 6 | 9 10 53 | | | 6 11 16 | 6 13 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1307. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1310. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 5 0 1 | 5 6 17 | | JAN. . | { 1 15 11 | 1 20 46 |
| <i>d. h. m.</i> | FEB. . | 3 12 45 | 3 16 51 | | | { 31 3 55 | 31 14 54 |
| 13 12 16 | MAR. . | 5 1 29 | 5 2 27 | March. | FEB. ○ | 14 22 17 | 14 17 35 |
| | APRIL | 3 14 13 | 3 11 23 | <i>d. h. m.</i> | | { 1 16 39 | 2 6 27 |
| | MAY . | 3 2 57 | 2 20 39 | 13 5 43 | MAR. . | { 31 5 23 | 31 18 53 |
| | JUNE . | 1 15 41 | { 1 6 50 | | APRIL | 29 18 7 | 30 4 32 |
| | JULY . | { 1 4 25 | { 30 18 49 | | MAY . | 29 6 51 | 29 12 11 |
| | | 30 17 9 | 30 8 57 | | JUNE . | 27 19 35 | 27 18 53 |
| | AUG. . | 29 5 53 | 29 1 1 | | JULY . | 27 8 19 | 27 1 47 |
| | SEPT. . | 27 18 37 | 27 18 18 | | ○ | { 11 2 41 | 11 5 38 |
| | OCT. . | 27 7 21 | 27 11 44 | | AUG. . | { 25 21 3 | 25 9 56 |
| | NOV. . | 25 20 5 | 26 4 16 | | SEPT. . | 24 9 47 | 23 20 16 |
| | DEC. . | 25 8 49 | 25 19 9 | | OCT. . | 23 22 31 | 23 9 26 |
| | | | | | NOV. . | 22 11 15 | 22 1 30 |
| | | | | | DEC. . | 21 23 59 | 21 19 52 |
| 1308. | JAN. . | 23 21 33 | 24 7 53 | | | | |
| G.F. | FEB. . | 22 10 17 | 22 18 46 | 1311. | JAN. . | 20 12 43 | 20 15 10 |
| | ○ | { 8 4 39 | 8 5 47 | C. | FEB. . | 19 1 27 | 19 9 48 |
| 12 18 5 | MAR. . | { 22 23 1 | 23 3 47 | 13 11 32 | MAR. . | 20 14 11 | 21 2 24 |
| | APRIL | 21 11 45 | 21 11 41 | | APRIL | 19 2 55 | 19 16 7 |
| | MAY . | 21 0 29 | 20 19 19 | | MAY . | 18 15 39 | 19 2 53 |
| | JUNE . | 19 18 13 | 19 3 42 | | JUNE . | 17 4 23 | 17 11 31 |
| | JULY . | 19 1 57 | 18 13 51 | | JULY . | 16 17 7 | 16 18 53 |
| | AUG. . | 17 14 41 | 17 2 36 | | AUG. . | 15 5 51 | 15 2 13 |
| | ○ | { 1 9 3 | 1 11 9 | | SEPT. . | 13 18 35 | 13 10 21 |
| | SEPT. . | { 16 3 25 | 15 18 8 | | OCT. . | 13 7 19 | 12 20 12 |
| | OCT. . | 15 16 9 | 15 11 55 | | NOV. . | 11 20 3 | 11 8 17 |
| | NOV. . | 14 4 53 | 14 6 48 | | DEC. . | { 11 8 47 | 10 22 46 |
| | DEC. . | 13 17 37 | 14 1 16 | | ○ | { 26 3 9 | 26 12 25 |
| | | | | | | | |
| 1309. | JAN. . | 12 6 21 | 12 18 2 | 1312. | JAN. . | 9 21 32 | 9 15 23 |
| E. | FEB. . | { 10 19 5 | 11 8 12 | B.A. | FEB. . | 8 10 16 | 8 9 18 |
| | ○ | { 25 13 27 | 25 8 9 | 12 17 21 | MAR. . | 8 23 0 | 9 3 23 |
| 12 23 54 | MAR. . | 12 7 50 | 12 19 37 | | APRIL | 7 11 44 | 7 20 20 |
| | APRIL | 10 20 34 | 11 4 39 | | MAY . | 7 0 23 | 7 11 13 |
| | MAY . | 10 9 18 | 10 12 5 | | JUNE . | { 5 13 12 | 5 23 33 |
| | JUNE . | 8 22 2 | 8 18 53 | | ○ | { 20 7 34 | 19 21 22 |
| | JULY . | 8 10 46 | 8 2 8 | | JULY . | 5 1 56 | 5 9 53 |
| | AUG. . | { 6 23 30 | 6 10 57 | | AUG. . | 3 14 40 | 3 18 41 |
| | ○ | { 21 17 52 | 21 23 53 | | SEPT. . | 2 3 24 | 2 3 1 |
| | SEPT. . | 5 12 14 | 4 22 19 | | OCT. . | { 1 16 8 | 1 11 49 |
| | OCT. . | 5 0 58 | 4 12 45 | | | { 31 4 52 | 30 21 40 |
| | NOV. . | 3 18 42 | 3 6 3 | | NOV. . | 29 17 36 | 29 8 59 |
| | DEC. . | 3 2 26 | 3 1 14 | | ○ | { 14 11 53 | 14 21 13 |
| | | | | | DEC. . | { 29 6 20 | 28 21 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1313. G. March. <i>d. h. m.</i> 12 23 10 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1316. D.C. March. <i>d. h. m.</i> 12 16 36 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 19 4 | 27 12 21 | | JAN. . | 25 10 15 | 25 16 6 |
| | FEB. . | 26 7 48 | 26 4 2 | | FEB. . | 23 12 59 | 24 1 59 |
| | MAR. . | 27 20 33 | 27 20 23 | | MAR. . | 24 11 43 | 24 11 1 |
| | APRIL | 26 9 17 | 26 12 53 | | ○ | 8 6 5 | 8 17 12 |
| | MAY . | 25 22 1 | 26 4 25 | | APRIL | 23 0 27 | 22 19 46 |
| | ○ | 9 16 23 | 9 10 42 | | MAY . | 22 13 11 | 22 5 8 |
| | JUNE . | 24 10 45 | 24 18 25 | | JUNE . | 21 1 55 | 20 16 0 |
| | JULY . | 23 23 29 | 24 6 44 | | JULY . | 20 14 39 | 20 4 58 |
| | AUG. . | 22 12 13 | 22 17 38 | | AUG. . | 19 3 23 | 18 20 13 |
| | SEPT. . | 21 0 57 | 21 3 43 | | SEPT. . | 17 16 7 | 17 13 10 |
| | OCT. . | 20 13 41 | 20 13 43 | | ○ | 2 10 29 | 2 3 23 |
| | NOV. . | 19 2 25 | 19 0 4 | | OCT. . | 17 4 51 | 17 6 53 |
| | ○ | 3 20 47 | 3 22 54 | | NOV. . | 15 17 33 | 16 0 14 |
| | DEC. . | 18 15 9 | 18 11 0 | | DEC. . | 15 6 19 | 15 16 12 |
| 1314. F. 13 4 58 | JAN. . | 17 3 53 | 16 22 33 | 1317. B. 12 22 25 | JAN. . | 13 19 3 | 14 6 9 |
| | FEB. . | 15 16 37 | 15 10 48 | | FEB. . | 12 7 47 | 12 17 52 |
| | MAR. . | 17 5 21 | 16 23 56 | | MAR. . | 13 20 31 | 14 3 34 |
| | APRIL | 15 18 5 | 15 14 1 | | ○ | 28 14 53 | 28 17 48 |
| | MAY . | 15 6 49 | 15 5 0 | | APRIL | 12 9 15 | 12 11 46 |
| | ○ | 30 1 11 | 30 3 45 | | MAY . | 11 21 59 | 11 19 15 |
| | JUNE . | 13 19 33 | 13 20 23 | | JUNE . | 10 10 43 | 10 2 59 |
| | JULY . | 13 8 17 | 13 11 36 | | JULY . | 9 23 27 | 9 12 8 |
| | AUG. . | 11 21 1 | 12 2 1 | | AUG. . | 8 12 11 | 7 23 26 |
| | SEPT. . | 10 9 45 | 10 15 23 | | SEPT. . | 7 0 55 | 6 13 33 |
| | OCT. . | 9 22 29 | 10 3 48 | | ○ | 21 19 17 | 21 19 45 |
| | NOV. . | 8 11 13 | 8 15 29 | | OCT. . | 6 13 39 | 6 6 32 |
| | DEC. . | 7 23 57 | 8 2 42 | | NOV. . | 5 2 23 | 5 1 11 |
| 1315. E. 13 10 47 | JAN. . | 6 12 42 | 6 13 35 | 1318. A. 13 4 14 | JAN. . | 3 3 52 | 3 14 5 |
| | FEB. . | 5 1 26 | 5 0 7 | | FEB. . | 1 16 36 | 2 5 37 |
| | MAR. . | 6 14 10 | 6 10 30 | | MAR. . | 3 5 20 | 3 18 19 |
| | APRIL | 5 2 54 | 4 21 13 | | APRIL | 1 18 4 | 2 4 20 |
| | ○ | 19 21 16 | 20 10 25 | | MAY . | 1 6 48 | 1 12 20 |
| | MAY . | 4 15 38 | 4 8 48 | | ○ | 30 19 32 | 30 19 14 |
| | JUNE . | 3 4 22 | 2 21 45 | | JUNE . | 29 8 16 | 29 2 5 |
| | JULY . | 2 17 6 | 2 12 14 | | JULY . | 23 21 0 | 23 9 59 |
| | AUG. . | 1 5 50 | 1 3 51 | | AUG. . | 27 9 44 | 26 20 2 |
| | ○ | 30 18 34 | 30 19 57 | | SEPT. . | 25 22 28 | 25 8 58 |
| | SEPT. . | 29 7 13 | 29 11 47 | | OCT. . | 25 11 12 | 25 0 59 |
| | ○ | 14 1 40 | 13 12 53 | | NOV. . | 23 23 56 | 23 19 27 |
| | OCT. . | 28 20 2 | 29 2 45 | | DEC. . | 23 12 40 | 23 15 8 |
| | NOV. . | 27 8 46 | 27 16 31 | | | | |
| | DEC. . | 26 21 30 | 27 4 59 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1319. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1322. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | 22 1 24 | 22 10 3 | March. | JAN. . | 18 16 34 | 18 9 9 |
| <i>d. h. m.</i> | ○ | { 5 19 46 | 5 16 10 | <i>d. h. m.</i> | FEB. . | 17 5 18 | 17 0 0 |
| 13 10 2 | FEB. . | { 20 14 8 | 21 2 57 | 13 3 29 | MAR. . | 18 18 2 | 18 15 50 |
| | MAR. . | 22 2 52 | 22 16 53 | | APRIL | 17 6 46 | 17 8 7 |
| | APRIL | 20 15 36 | 21 3 47 | | MAY . | 16 19 30 | 17 0 3 |
| | MAY . | 20 4 20 | 20 12 15 | | JUNE . | 15 8 14 | 15 14 54 |
| | JUNE . | 18 17 4 | 18 19 18 | | JULY . | 14 20 58 | 15 4 12 |
| | JULY . | 18 5 48 | 18 2 1 | | AUG. . | 13 9 42 | 13 15 59 |
| | ○ | { 2 0 10 | 2 1 21 | | SEPT. . | 11 22 26 | 12 2 40 |
| | AUG. . | { 16 18 32 | 16 9 28 | | OCT. . | 11 11 10 | 11 12 53 |
| | SEPT. . | 15 7 16 | 14 18 43 | | NOV. . | 9 23 54 | 9 23 13 |
| | OCT. . | 14 20 0 | 14 6 31 | | DEC. . | 9 12 38 | 9 9 55 |
| | NOV. . | 13 8 44 | 12 21 12 | | | | |
| | DEC. . | 12 21 23 | 12 14 30 | | | | |
| 1320. F.E. | JAN. . | { 11 10 13 | 11 9 26 | 1323. D. | JAN. . | 8 1 23 | 7 21 6 |
| | ○ | { 26 4 35 | 26 7 40 | 13 9 18 | FEB. . | 6 14 7 | 6 8 43 |
| 12 15 51 | FEB. . | 9 22 57 | 10 4 30 | | MAR. . | 8 2 51 | 7 21 11 |
| | MAR. . | 10 11 41 | 10 22 8 | | APRIL | 6 15 35 | 6 10 23 |
| | APRIL | 9 0 25 | 9 13 15 | | MAY . | { 6 4 19 | 6 0 47 |
| | MAY . | 8 13 9 | 9 1 23 | | ○ | { 20 22 41 | 21 4 6 |
| | JUNE . | 7 1 53 | 7 11 6 | | JUNE . | 4 17 3 | 4 15 54 |
| | JULY . | { 6 14 37 | 6 19 3 | | JULY . | 4 5 47 | 4 7 17 |
| | ○ | { 21 8 59 | 21 1 50 | | AUG. . | 2 18 31 | 2 22 20 |
| | AUG. . | 5 3 21 | 5 2 22 | | SEPT. . | { 1 7 15 | 1 12 31 |
| | SEPT. . | 3 16 5 | 3 10 8 | | ○ | { 30 19 59 | { 1 1 41 |
| | OCT. . | 3 4 49 | 2 19 11 | | OCT. . | 30 8 43 | { 30 13 58 |
| | NOV. . | 1 17 33 | { 1 6 12 | | ○ | { 14 3 5 | 13 17 8 |
| | DEC. . | { 1 6 17 | { 30 19 30 | | NOV. . | { 28 21 27 | 29 1 35 |
| | ○ | { 30 19 1 | 30 11 0 | | DEC. . | 28 10 11 | 28 12 40 |
| 1321. D. | JAN. . | { 14 13 23 | 14 22 55 | 1324. A.G. | JAN. . | 26 22 56 | 26 23 16 |
| 12 21 40 | FEB. . | { 29 7 45 | 29 4 12 | 12 15 7 | FEB. . | 25 11 40 | 25 9 30 |
| | MAR. . | 27 20 30 | 27 22 8 | | MAR. . | 26 0 24 | 25 19 42 |
| | APRIL | 27 21 58 | 28 7 29 | | APRIL | 24 13 8 | 24 6 30 |
| | MAY . | 27 10 42 | 27 21 9 | | ○ | { 9 7 30 | 9 19 9 |
| | JUNE . | 25 23 26 | 26 8 31 | | MAY . | { 24 1 52 | 23 18 31 |
| | ○ | { 10 17 48 | 10 6 20 | | JUNE . | 22 14 36 | 22 8 6 |
| | JULY . | { 23 12 10 | 23 18 5 | | JULY . | 22 3 20 | 21 23 14 |
| | AUG. . | 24 0 54 | 24 2 44 | | AUG. . | 20 16 4 | 20 15 20 |
| | SEPT. . | 22 13 33 | 22 11 27 | | SEPT. . | 19 4 43 | 19 7 39 |
| | OCT. . | 22 2 22 | 21 20 54 | | OCT. . | 18 17 32 | 18 23 23 |
| | NOV. . | 20 15 6 | 20 7 34 | | ○ | { 2 11 54 | 1 23 28 |
| | DEC. . | 20 3 50 | 19 19 33 | | NOV. . | { 17 6 16 | 17 14 3 |
| | | | | | DEC. . | 16 19 0 | 17 3 19 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1325. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1328. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | | | | C.B. | | | |
| March. | JAN. . | 15 7 44 | 15 15 6 | March. | JAN. . | 12 22 54 | 18 4 42 |
| <i>d. h. m.</i> | FEB. . | 13 20 28 | 14 1 27 | <i>d. h. m.</i> | FEB. . | { 11 11 38 | 11 22 45 |
| 12 20 55 | MAR. . | 15 9 12 | 15 10 40 | 12 14 22 | ○ | { 26 6 0 | 26 1 52 |
| | APRIL | 13 21 56 | 13 19 14 | | MAR. . | 12 0 22 | 12 14 9 |
| | MAY . | 13 10 40 | 13 8 58 | | APRIL | 10 13 6 | 11 2 27 |
| | JUNE . | 11 23 24 | 11 13 48 | | MAY . | 10 1 50 | 10 11 59 |
| | JULY . | 11 12 8 | 11 1 34 | | JUNE . | 8 14 34 | 8 19 36 |
| | AUG. . | 10 0 52 | 9 15 44 | | JULY . | 8 3 18 | 8 2 21 |
| | SEPT. . | 8 13 36 | 8 8 2 | | AUG. . | { 6 16 2 | 6 9 24 |
| | OCT. . | 8 2 20 | 8 1 44 | | ○ | { 21 10 24 | 21 12 33 |
| | NOV. . | 6 15 4 | 6 19 38 | | SEPT. . | 5 4 46 | 4 17 46 |
| | DEC. . | 6 3 48 | 6 12 36 | | OCT. . | 4 17 30 | 4 4 19 |
| | | | | | NOV. . | 3 6 14 | 2 17 37 |
| | | | | | DEC. . | 2 18 58 | 2 9 41 |
| 1326. | JAN. . | 4 16 33 | 5 3 44 | | | | |
| E. | FEB. . | 3 5 17 | 3 16 31 | | | | |
| 13 2 44 | MAR. . | { 4 18 1 | 5 3 6 | 1329. | JAN. . | { 1 7 43 | 1 8 58 |
| | ○ | { 19 12 23 | 19 13 0 | A. | FEB. . | { 30 20 27 | 30 22 55 |
| | APRIL | 3 6 45 | 3 11 48 | | ... | ... | ... |
| | MAY . | 2 19 29 | 2 19 21 | 12 20 11 | MAR. . | { 1 9 11 | 1 17 17 |
| | JUNE . | { 1 8 18 | 1 2 42 | | ... | { 30 21 55 | 31 9 40 |
| | ... | { 30 20 57 | 30 10 52 | | APRIL | 29 10 39 | 29 23 17 |
| | JULY . | 30 9 41 | 29 20 59 | | MAY . | 23 23 23 | 29 10 8 |
| | AUG. . | 23 22 25 | 23 9 47 | | JUNE . | 27 12 7 | 27 18 52 |
| | ○ | { 12 16 47 | 12 19 9 | | JULY . | 27 0 51 | 27 2 30 |
| | SEPT. . | { 27 11 9 | 27 1 29 | | AUG. . | 25 13 35 | 25 10 5 |
| | OCT. . | 26 23 53 | 26 19 32 | | SEPT. . | 24 2 19 | 23 18 34 |
| | NOV. . | 25 12 37 | 25 14 43 | | OCT. . | 23 15 8 | 23 4 40 |
| | DEC. . | 25 1 21 | 25 9 26 | | NOV. . | 22 3 47 | 21 16 51 |
| | | | | | DEC. . | 21 16 31 | 21 7 13 |
| 1327. | JAN. . | 23 14 5 | 24 2 18 | 1330. | ○ | { 5 10 54 | 5 21 9 |
| D. | FEB. . | 22 2 49 | 22 16 23 | G. | JAN. . | { 20 5 16 | 19 23 31 |
| 13 8 33 | ○ | { 8 21 11 | 8 15 53 | 13 2 0 | FEB. . | 18 18 0 | 18 16 57 |
| | MAR. . | { 23 15 34 | 24 3 36 | | MAR. . | 20 6 44 | 20 10 34 |
| | APRIL | 22 4 18 | 22 12 24 | | APRIL | 18 19 28 | 19 3 13 |
| | MAY . | 21 17 2 | 21 19 38 | | MAY . | 18 8 12 | 18 18 0 |
| | JUNE . | 20 5 46 | 20 2 19 | | JUNE . | 16 20 53 | 17 3 32 |
| | JULY . | 19 18 30 | 19 9 32 | | ○ | { 1 15 18 | 1 4 24 |
| | AUG. . | 13 7 14 | 17 13 26 | | JULY . | { 16 9 40 | 16 17 4 |
| | ○ | { 2 1 36 | 2 7 23 | | AUG. . | 14 22 24 | 15 2 17 |
| | SEPT. . | { 16 19 53 | 16 5 56 | | SEPT. . | 13 11 8 | 13 11 5 |
| | OCT. . | 16 8 42 | 15 20 31 | | OCT. . | 12 23 52 | 12 20 17 |
| | NOV. . | 14 21 26 | 14 13 57 | | NOV. . | 11 12 33 | 11 6 27 |
| | DEC. . | 14 10 10 | 14 9 12 | | DEC. . | { 11 1 20 | 10 17 50 |
| | | | | | ○ | { 25 19 42 | 26 5 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1331. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1334. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 9 14 4 | 9 6 31 | B. | JAN. . | 6 5 14 | 6 18 48 |
| March. | FEB. . | 8 2 48 | 7 20 30 | March. | FEB. . | 4 17 58 | 5 0 48 |
| <i>d. h. m.</i> | MAR. . | 9 15 32 | 9 11 36 | <i>d. h. m.</i> | MAR. . | 6 6 42 | 6 10 22 |
| 13 7 48 | APRIL | 8 4 16 | 8 3 28 | 13 1 15 | APRIL | { 4 19 26 | 4 18 57 |
| | MAY . | 7 17 0 | 7 19 29 | | ○ | { 19 13 48 | 20 0 10 |
| | JUNE . | { 6 5 44 | 6 10 54 | | MAY . | 4 8 10 | 4 3 16 |
| | ○ | { 21 0 6 | 20 18 2 | | JUNE . | 2 20 54 | 2 12 15 |
| | JULY . | 5 18 28 | 6 1 8 | | JULY . | { 2 9 39 | 1 22 50 |
| | AUG. . | 4 7 12 | 4 13 50 | | | { 31 22 22 | 31 11 46 |
| | SEPT. . | 2 19 56 | 3 1 15 | | AUG. . | 30 11 6 | 30 3 9 |
| | | { 2 8 40 | 2 11 55 | | SEPT. . | 28 23 50 | 28 20 26 |
| | OCT. . | { 31 21 24 | 31 22 22 | | ○ | { 13 18 12 | 13 11 50 |
| | NOV. . | 30 10 8 | 30 8 59 | | OCT. . | { 28 12 34 | 28 14 37 |
| | ○ | { 15 4 30 | 15 6 58 | | NOV. . | 27 1 18 | 27 8 24 |
| | DEC. . | { 29 22 52 | 29 19 54 | | DEC. . | 26 14 2 | 27 0 40 |
| 1332. | JAN. . | 23 11 37 | 23 7 12 | 1335. | JAN. . | 25 2 47 | 25 14 42 |
| E.D. | FEB. . | 27 0 21 | 26 18 57 | A. | FEB. . | 23 15 31 | 24 2 17 |
| 12 13 37 | MAR. . | 27 13 5 | 27 7 28 | 13 7 4 | MAR. . | 25 4 15 | 25 11 41 |
| | APRIL | 26 1 49 | 25 20 59 | | ○ | { 8 22 37 | 9 0 54 |
| | MAY . | 25 14 33 | 25 11 32 | | APRIL | { 23 16 59 | 23 19 33 |
| | ○ | { 9 8 55 | 9 11 12 | | MAY . | 23 5 43 | 23 2 44 |
| | JUNE . | { 24 3 17 | 24 2 50 | | JUNE . | 21 18 27 | 21 10 15 |
| | JULY . | 23 16 1 | 23 18 13 | | JULY . | 21 7 11 | 20 19 13 |
| | AUG. . | 22 4 45 | 22 9 6 | | AUG. . | 19 19 55 | 19 6 37 |
| | SEPT. . | 20 17 29 | 20 23 4 | | SEPT. . | 18 8 39 | 17 20 58 |
| | OCT. . | 20 6 13 | 20 12 4 | | ○ | { 8 3 1 | 8 4 8 |
| | NOV. . | 18 18 57 | 19 0 13 | | OCT. . | { 17 21 23 | 17 14 5 |
| | DEC. . | 18 7 41 | 18 11 39 | | NOV. . | 16 10 7 | 16 9 1 |
| 1333. | JAN. . | 16 20 25 | 16 22 27 | 1336. | JAN. . | 14 11 35 | 14 22 15 |
| C. | FEB. . | 15 9 9 | 15 8 40 | G.F. | FEB. . | 13 0 19 | 13 13 47 |
| 12 19 26 | MAR. . | 16 21 53 | 16 18 35 | 12 12 53 | MAR. . | 13 13 3 | 14 2 20 |
| | APRIL | { 15 10 37 | 15 4 48 | | APRIL | 12 1 47 | 12 12 8 |
| | ○ | { 30 4 59 | 30 17 48 | | MAY . | 11 14 31 | 11 19 56 |
| | MAY . | 14 23 21 | 14 15 48 | | JUNE . | 10 3 15 | 10 2 40 |
| | JUNE . | 13 12 5 | 13 4 25 | | JULY . | 9 15 59 | 9 9 31 |
| | JULY . | 13 0 49 | 12 18 46 | | AUG. . | 8 4 43 | 7 17 29 |
| | AUG. . | 11 13 33 | 11 10 33 | | SEPT. . | 6 17 27 | 6 3 39 |
| | SEPT. . | 10 2 17 | 10 3 4 | | OCT. . | 6 6 11 | 5 16 48 |
| | OCT. . | { 9 15 1 | 9 19 27 | | NOV. . | 4 18 55 | 4 8 52 |
| | ○ | { 24 9 23 | 23 21 19 | | DEC. . | 4 7 39 | 4 3 23 |
| | NOV. . | 8 3 45 | 8 11 1 | | | | |
| | DEC. . | 7 16 29 | 8 1 11 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------|---------|---------------------------------|---------------------------------|-----------------------|---------|---------------------------------|---------------------------------|
| A.D. 1337. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1340. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | 2 20 23 | 2 22 58 | B.A. | JAN. . | 30 0 18 | 29 17 31 |
| March. | FEB. . | { 1 9 7 | 1 17 54 | March. | FEB. . | 28 13 2 | 28 7 48 |
| <i>d. h. m.</i> | ○ | { 16 3 29 | 16 0 39 | <i>d. h. m.</i> | MAR. . | 29 1 46 | 28 23 8 |
| 12 18 41 | MAR. . | 2 21 51 | 3 10 40 | 12 12 8 | APRIL | 27 14 30 | 27 14 51 |
| | APRIL | { 1 10 35 | 2 0 27 | | MAY . | 27 3 14 | 27 6 35 |
| | | { 30 23 19 | { 1 11 13 | | JUNE . | 25 15 58 | 25 21 29 |
| | MAY . | 30 12 3 | { 30 19 38 | | JULY . | 25 4 42 | 25 11 7 |
| | JUNE . | 29 0 47 | 29 2 42 | | AUG. . | 23 17 26 | 23 23 24 |
| | JULY . | 28 18 31 | 29 9 34 | | SEPT. . | 22 6 10 | 22 10 40 |
| | ○ | { 12 7 53 | 12 8 4 | | OCT. . | 21 18 54 | 21 21 25 |
| | AUG. . | { 27 2 15 | 26 17 17 | | NOV. . | 20 7 38 | 20 8 5 |
| | SEPT. . | 25 14 59 | 25 2 46 | | DEC. . | 19 20 22 | 19 18 54 |
| | OCT. . | 25 3 43 | 24 14 44 | | | | |
| | NOV. . | 23 16 27 | 23 5 27 | 1341. | JAN. . | 18 9 7 | 18 5 54 |
| | DEC. . | 23 5 11 | 22 22 38 | G. | FEB. . | 16 21 51 | 16 17 10 |
| 1338. | JAN. . | 21 17 56 | 21 17 19 | 12 17 57 | MAR. . | 18 10 35 | 18 4 58 |
| D. | ○ | { 5 12 18 | 5 16 23 | | APRIL | 18 23 19 | 16 17 40 |
| 13 0 30 | FEB. . | { 20 6 40 | 20 12 2 | | MAY . | { 16 12 3 | 16 7 29 |
| | MAR. . | 21 19 25 | 22 5 25 | | ○ | { 31 6 25 | 31 11 32 |
| | APRIL | 20 8 9 | 20 20 20 | | JUNE . | 15 0 47 | 14 22 22 |
| | MAY . | 19 20 53 | 20 8 34 | | JULY . | 14 13 31 | 14 13 49 |
| | JUNE . | 18 9 37 | 18 13 19 | | AUG. . | 13 2 15 | 13 5 12 |
| | JULY . | 17 22 21 | 18 2 28 | | SEPT. . | 11 14 59 | 11 19 56 |
| | ○ | { 1 16 43 | 1 8 30 | | OCT. . | 11 8 43 | 11 9 43 |
| | AUG. . | { 16 11 5 | 16 10 7 | | NOV. . | { 9 16 27 | 9 22 33 |
| | SEPT. . | 14 23 49 | 14 18 14 | | ○ | { 24 10 49 | 24 1 16 |
| | OCT. . | 14 12 33 | 14 3 37 | | DEC. . | 9 5 11 | 9 10 28 |
| | NOV. . | 13 1 17 | 12 14 49 | | | | |
| | DEC. . | 12 14 1 | 12 4 3 | 1342. | JAN. . | 7 17 53 | 7 21 37 |
| 1339. | JAN. . | { 11 2 45 | 10 19 17 | F. | FEB. . | 6 6 39 | 6 7 58 |
| C. | ○ | { 25 21 7 | 26 7 36 | 12 23 46 | MAR. . | 7 19 23 | 7 17 46 |
| 13 6 19 | FEB. . | 9 15 29 | 9 12 1 | | APRIL | 6 8 7 | 6 3 28 |
| | MAR. . | 11 4 13 | 11 5 26 | | MAY . | { 5 20 51 | 5 18 42 |
| | APRIL | 9 16 57 | 9 22 31 | | ○ | { 20 15 18 | 21 2 28 |
| | MAY . | 9 5 41 | 9 14 13 | | JUNE . | 4 9 35 | 4 1 17 |
| | JUNE . | 7 18 25 | 8 3 57 | | JULY . | 3 22 19 | 3 14 41 |
| | JULY . | { 7 7 9 | 7 15 32 | | AUG. . | { 2 11 3 | 2 5 50 |
| | ○ | { 22 1 31 | 21 13 20 | | | { 31 23 47 | 31 22 15 |
| | AUG. . | 5 19 53 | 6 1 29 | | SEPT. . | 30 12 31 | 30 15 4 |
| | SEPT. . | 4 8 37 | 4 10 33 | | OCT. . | 30 1 15 | 30 7 25 |
| | OCT. . | 3 21 21 | 3 19 46 | | ○ | { 18 19 37 | 18 7 56 |
| | NOV. . | 2 10 5 | 2 5 35 | | NOV. . | { 23 13 59 | 23 22 33 |
| | DEC. . | { 1 22 49 | 1 16 24 | | DEC. . | 23 2 43 | 23 12 5 |
| | | { 31 11 33 | 31 4 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|------------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1343. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1346. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| K. | | | | A. | | | |
| March. | JAN. . | 26 15 28 | 26 23 50 | March. | JAN. . | 23 6 38 | 23 12 35 |
| <i>d. h. m.</i> | FEB. . | 25 4 12 | 25 9 59 | <i>d. h. m.</i> | FEB. . | 21 19 22 | 22 6 28 |
| 13 5 31 | MAR. . | 26 16 56 | 26 18 47 | 12 23 1 | O | { 8 13 44 | 8 10 2 |
| | APRIL . | 25 5 40 | 25 2 55 | | MAR. . | { 23 8 6 | 23 21 42 |
| | MAY . | 21 18 24 | 24 11 14 | | APRIL . | 21 20 50 | 22 9 53 |
| | JUNE . | 23 7 8 | 22 20 48 | | MAY . | 21 9 34 | 21 19 21 |
| | JULY . | 22 19 52 | 22 8 26 | | JUNE . | 19 22 18 | 20 2 59 |
| | AUG. . | 21 8 36 | 20 22 37 | | JULY . | 19 11 2 | 19 9 53 |
| | SEPT. . | 19 21 20 | 19 15 11 | | AUG. . | 17 23 46 | 17 17 10 |
| | OCT. . | 19 10 4 | 19 9 17 | | O | { 1 18 8 | 1 19 34 |
| | NOV. . | 17 22 48 | 18 3 39 | | SEPT. . | { 16 12 30 | 16 1 48 |
| | DEC. . | 17 11 32 | 17 20 58 | | OCT. . | 16 1 14 | 15 12 34 |
| | | | | | NOV. . | 14 13 58 | 14 1 57 |
| | | | | | DEC. . | 14 2 42 | 13 17 56 |
| 1344. | JAN. . | 16 0 17 | 16 12 15 | 1347. | JAN. . | 12 15 26 | 12 11 52 |
| D.C. | FEB. . | 14 18 1 | 15 1 0 | G. | FEB. . | 11 4 10 | 11 6 31 |
| 12 11 23 | MAR. . | 15 1 43 | 15 11 19 | 18 4 50 | MAR. . | 12 16 54 | 13 0 37 |
| | APRIL . | 13 14 29 | 13 19 42 | | APRIL . | 11 5 38 | 11 16 46 |
| | MAY . | 13 8 13 | 13 2 58 | | MAY . | 10 18 22 | 11 6 19 |
| | JUNE . | 11 15 57 | 11 10 8 | | JUNE . | 9 7 6 | 9 17 14 |
| | JULY . | 11 4 41 | 10 18 8 | | JULY . | 8 19 50 | 9 2 10 |
| | AUG. . | 9 17 25 | 9 4 12 | | AUG. . | 7 8 34 | 7 10 6 |
| | SEPT. . | { 8 6 9 | 7 17 5 | | SEPT. . | 5 21 18 | 5 18 4 |
| | O | { 23 0 31 | 23 8 15 | | OCT. . | 5 10 2 | 5 2 55 |
| | OCT. . | 7 18 53 | 7 8 59 | | NOV. . | 3 22 46 | 3 13 16 |
| | NOV. . | 6 7 37 | 6 8 18 | | DEC. . | 3 11 30 | 3 1 30 |
| | DEC. . | 5 20 21 | 5 22 43 | | | | |
| 1345. | JAN. . | 4 9 5 | 4 17 35 | 1348. | JAN. O | { 2 0 15 | 1 15 40 |
| H. | FEB. . | 2 21 49 | 3 10 23 | F.E. | { 16 18 37 | 17 5 47 | |
| 12 17 12 | MAR. . | { 4 10 33 | 5 0 25 | | { 31 12 59 | 31 7 32 | |
| | O | { 19 4 53 | 18 23 30 | | FEB. . | ... | ... |
| | APRIL . | 2 23 17 | 3 11 27 | | MAR. . | { 1 1 43 | 1 0 27 |
| | MAY . | 2 12 1 | 2 20 1 | 12 10 39 | { 30 14 27 | 30 17 36 | |
| | JUNE . | { 1 0 45 | 1 8 5 | | APRIL . | 29 8 11 | 29 9 56 |
| | { 30 18 20 | 30 9 44 | | | MAY . | 28 15 55 | 29 0 41 |
| | JULY . | 30 2 13 | 29 17 2 | | JUNE . | 27 4 39 | 27 13 24 |
| | AUG. . | 28 14 57 | 28 2 4 | | O | { 11 23 1 | 11 11 29 |
| | O | { 12 9 19 | 12 14 53 | | JULY . | { 26 17 23 | 27 0 13 |
| | SEPT. . | { 27 3 41 | 26 13 42 | | AUG. . | 25 6 7 | 25 9 53 |
| | OCT. . | 26 16 25 | 26 4 23 | | SEPT. . | 23 18 51 | 23 19 15 |
| | NOV. . | 25 5 9 | 24 21 56 | | OCT. . | 23 7 35 | 23 4 54 |
| | DEC. . | 24 17 53 | 24 17 10 | | NOV. . | 21 20 19 | 21 15 17 |
| | | | | | DEC. . | 21 9 3 | 21 2 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1349. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1352. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | ○ | { 5 8 25 | 5 18 49 | A.G. | JAN. . | 17 12 58 | 17 22 33 |
| March. | JAN. . | { 19 21 48 | 19 15 6 | March. | FEB. . | 16 1 42 | 16 9 23 |
| <i>d. h. m.</i> | FEB. . | 18 10 32 | 18 4 33 | <i>d. h. m.</i> | MAR. . | 16 14 26 | 16 18 37 |
| 12 16 27 | MAR. . | 19 23 16 | 19 19 2 | 12 9 51 | APRIL | { 15 3 10 | 15 2 47 |
| | APRIL | 18 12 0 | 18 10 21 | | ○ | { 29 21 32 | 30 7 2 |
| | MAY . | 18 0 44 | 18 2 3 | | MAY . | 14 15 54 | 14 10 12 |
| | JUNE . | 16 13 28 | 16 17 24 | | JUNE . | 13 4 38 | 12 19 23 |
| | ○ | { 1 7 50 | 1 1 26 | | JULY . | 12 17 22 | 12 5 47 |
| | JULY . | { 16 2 12 | 16 7 50 | | AUG. . | 11 6 6 | 10 18 41 |
| | AUG. . | 14 14 56 | 14 21 1 | | SEPT. . | 9 18 50 | 9 10 13 |
| | SEPT. . | 13 3 40 | 13 9 1 | | OCT. . | { 9 7 34 | 9 3 51 |
| | OCT. . | 12 16 24 | 12 20 15 | | ○ | { 24 1 56 | 23 20 23 |
| | NOV. . | 11 5 8 | 11 7 8 | | NOV. . | 7 20 18 | 7 22 27 |
| | DEC. . | { 10 17 52 | 10 17 58 | | DEC. . | 7 9 2 | 7 16 38 |
| | ○ | { 25 12 14 | 25 14 51 | | | | |
| 1350. | JAN. . | 9 6 36 | 9 4 49 | 1353. | JAN. . | 5 21 46 | 6 9 6 |
| C. | FEB. . | 7 19 20 | 7 15 45 | F. | FEB. . | 4 10 30 | 4 23 8 |
| 12 22 16 | MAR. . | 9 8 4 | 9 2 59 | 12 15 43 | MAR. . | 5 23 11 | 6 10 32 |
| | APRIL | 7 20 48 | 7 14 52 | | APRIL | { 4 11 58 | 4 19 39 |
| | MAY . | 7 9 32 | 7 3 51 | | ○ | { 19 6 20 | 19 7 44 |
| | JUNE . | { 5 22 16 | 5 18 4 | | MAY . | 4 0 42 | 4 3 13 |
| | ○ | { 20 16 38 | 20 18 38 | | JUNE . | 2 13 26 | 2 10 9 |
| | JULY . | 5 11 0 | 5 9 17 | | JULY . | { 2 2 10 | 1 17 31 |
| | AUG. . | 3 23 44 | 4 0 54 | | ○ | { 31 14 54 | 31 2 28 |
| | SEPT. . | 2 12 28 | 2 16 14 | | AUG. . | 30 3 38 | 29 13 50 |
| | ○ | { 2 1 12 | 2 6 50 | | SEPT. . | 28 16 22 | 28 4 20 |
| | OCT. . | { 31 13 56 | 31 20 26 | | ○ | { 18 10 44 | 18 12 20 |
| | NOV. . | 30 2 40 | 30 9 0 | | OCT. . | { 28 5 6 | 27 21 45 |
| | DEC. . | 29 15 24 | 29 20 36 | | NOV. . | 26 17 50 | 26 16 55 |
| | | | | | DEC. . | 26 6 34 | 26 12 19 |
| 1351. | JAN. . | 28 4 9 | 28 7 16 | 1354. | JAN. . | 24 19 19 | 25 6 22 |
| B. | FEB. . | 26 16 53 | 26 17 7 | K. | FEB. . | 23 8 3 | 23 21 48 |
| 13 4 5 | MAR. . | 28 5 37 | 28 2 38 | 12 21 32 | MAR. . | 24 20 47 | 25 10 11 |
| | APRIL | 26 18 21 | 26 12 9 | | APRIL | 23 9 31 | 23 19 48 |
| | MAY . | 26 7 5 | 25 22 46 | | MAY . | 22 23 15 | 23 3 26 |
| | JUNE . | 24 19 49 | 24 11 5 | | JUNE . | 21 10 50 | 21 10 8 |
| | JULY . | 24 8 33 | 24 1 22 | | JULY . | 20 23 48 | 20 16 50 |
| | AUG. . | 22 21 17 | 22 17 21 | | AUG. . | 19 12 27 | 19 1 8 |
| | SEPT. . | 21 10 1 | 21 10 18 | | SEPT. . | 18 1 11 | 17 11 26 |
| | OCT. . | 20 22 45 | 21 3 17 | | OCT. . | 17 13 55 | 17 0 40 |
| | ○ | { 4 17 7 | 4 5 49 | | NOV. . | 16 2 39 | 15 16 54 |
| | NOV. . | { 19 11 29 | 19 19 20 | | DEC. . | 15 15 23 | 15 11 36 |
| | DEC. . | 19 0 13 | 19 9 52 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1355. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1358. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 14 4 8 | 14 6 55 | G. | JAN. . | 10 19 17 | 10 13 6 |
| March. | FEB. . | { 12 16 52 | 13 1 39 | March. | FEB. . | 9 8 1 | 9 1 49 |
| <i>d. h. m.</i> | ○ | { 27 11 14 | 27 9 2 | <i>d. h. m.</i> | MAR. . | 10 20 45 | 10 15 29 |
| 13 8 20 | MAR. . | 14 5 36 | 14 18 14 | 12 20 47 | APRIL | 9 9 29 | 9 6 9 |
| | APRIL | 12 18 20 | 13 7 52 | | MAY . | 8 22 13 | 8 21 30 |
| | MAY . | 12 7 4 | 12 18 34 | | JUNE . | 7 10 57 | 7 13 1 |
| | JUNE . | 10 19 48 | 11 3 0 | | JULY . | 6 23 41 | 7 4 3 |
| | JULY . | 10 8 32 | 10 10 12 | | AUG. . | 5 12 25 | 5 18 4 |
| | AUG. . | { 8 21 16 | 8 17 16 | | SEPT. . | 4 1 9 | 4 6 54 |
| | ○ | { 23 15 38 | 23 14 56 | | OCT. . | 3 13 53 | 3 18 45 |
| | SEPT. . | 7 10 0 | 7 1 15 | | NOV. . | 2 2 37 | 2 6 0 |
| | OCT. . | 6 22 44 | 6 11 0 | | DEC. . | { 1 15 21 | 1 16 59 |
| | NOV. . | 5 11 28 | 4 23 7 | | | { 31 4 5 | 31 3 51 |
| | DEC. . | 5 0 12 | 4 13 49 | | | | |
| 1356. | JAN. . | 3 12 56 | 3 6 47 | 1359. | JAN. . | 29 16 50 | 29 14 38 |
| C.B. | FEB. . | { 2 1 40 | 2 1 6 | F. | FEB. . | 28 5 34 | 28 1 25 |
| | ○ | { 16 20 2 | 17 1 1 | 13 2 36 | MAR. . | 29 18 18 | 29 12 38 |
| 12 9 9 | MAR. . | 2 14 24 | 2 19 26 | | APRIL | 28 7 2 | 28 0 45 |
| | APRIL | { 1 3 8 | 1 12 32 | | MAY . | 27 19 46 | 27 14 8 |
| | | { 30 15 52 | { 1 3 21 | | ○ | { 11 14 8 | 11 18 57 |
| | MAY . | 30 4 36 | { 30 15 34 | | JUNE . | { 26 8 30 | 26 4 48 |
| | JUNE . | 28 17 20 | 29 1 29 | | JULY . | 25 21 14 | 25 20 22 |
| | JULY . | 28 6 4 | 28 9 57 | | AUG. . | 24 9 58 | 24 12 7 |
| | ○ | { 12 0 26 | 11 15 17 | | SEPT. . | 22 22 42 | 23 3 26 |
| | AUG. . | { 26 18 48 | 26 17 58 | | OCT. . | 22 11 26 | 22 17 51 |
| | SEPT. . | 25 7 32 | 25 2 28 | | NOV. . | 21 0 10 | 21 7 10 |
| | OCT. . | 24 20 16 | 24 12 10 | | ○ | { 5 18 32 | 5 9 26 |
| | NOV. . | 23 9 0 | 22 23 30 | | DEC. . | { 20 12 54 | 20 19 22 |
| | DEC. . | 22 21 44 | 22 12 39 | | | | |
| 1357. | JAN. . | 21 10 29 | 21 3 32 | 1360. | JAN. . | 19 1 39 | 19 6 29 |
| A. | ○ | { 5 4 51 | 5 16 10 | E.D. | FEB. . | 17 14 23 | 17 16 35 |
| 12 14 58 | FEB. . | { 19 23 13 | 19 19 45 | 12 8 25 | MAR. . | 18 3 7 | 18 1 56 |
| | MAR. . | 21 11 57 | 21 12 38 | | APRIL | 16 15 51 | 16 11 4 |
| | APRIL | 20 0 41 | 20 5 20 | | MAY . | { 16 4 35 | 15 20 51 |
| | MAY . | 19 13 25 | 19 20 52 | | ○ | { 30 22 57 | 31 9 33 |
| | JUNE . | 18 2 9 | 18 10 40 | | JUNE . | 14 17 19 | 14 8 5 |
| | JULY . | 17 14 53 | { 17 22 35 | | JULY . | 14 6 3 | 13 21 18 |
| | ○ | { 1 9 15 | { 31 20 27 | | AUG. . | 12 18 47 | 12 12 34 |
| | AUG. . | { 16 3 37 | 16 8 59 | | SEPT. . | 11 7 31 | 11 5 19 |
| | SEPT. . | 14 16 21 | 14 18 38 | | OCT. . | 10 20 15 | 10 22 39 |
| | OCT. . | 14 5 5 | 14 4 14 | | NOV. . | { 9 8 59 | 9 15 32 |
| | NOV. . | 12 17 49 | 12 14 23 | | ○ | { 24 3 21 | 23 16 30 |
| | DEC. . | 12 6 33 | 12 1 19 | | DEC. . | 8 21 43 | 9 7 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1361. c. March. d. h. m. 12 14 13 | | d. h. m. | d. h. m. | A.D. 1364. G.F. March. d. h. m. 12 7 39 | | d. h. m. | d. h. m. |
| | JAN. . | 7 10 27 | 7 20 48 | | JAN. . | 5 1 37 | 5 1 7 |
| | FEB. . | 5 23 11 | 6 8 30 | | FEB. . | 3 14 21 | 3 20 19 |
| | MAR. . | 7 11 55 | 7 18 19 | | MAR. . | { 4 3 5 | 4 14 1 |
| | APRIL | 6 0 39 | 6 2 44 | | ○ | { 18 21 27 | 18 18 4 |
| | MAY . | 5 13 23 | 5 10 29 | | APRIL | { 2 15 49 | 3 5 6 |
| | JUNE . | 4 2 7 | 3 18 29 | | MAY . | { 2 4 33 | 2 17 10 |
| | JULY . | 3 14 51 | 3 3 49 | | ○ | { 31 17 17 | { 1 2 134 |
| | AUG. . | { 2 3 35 | 1 15 22 | | JUNE . | 30 6 1 | { 30 10 22 |
| | SEPT. . | { 31 16 19 | 31 5 40 | | JULY . | 29 18 45 | 29 17 28 |
| | OCT. . | 30 5 3 | 29 22 30 | | AUG. . | 28 7 29 | 28 1 2 |
| | NOV. . | 29 17 47 | 29 16 57 | | ○ | { 12 1 51 | 12 2 43 |
| | DEC. . | 28 6 31 | 28 11 42 | | SEPT. . | { 26 20 13 | 26 9 56 |
| | | 27 19 15 | 28 5 17 | | OCT. . | 26 8 57 | 25 20 55 |
| | | | | | NOV. . | 24 21 41 | 24 10 22 |
| | | | | | DEC. . | 24 10 25 | 24 2 12 |
| 1362. B. 12 20 2 | JAN. . | 26 8 0 | 26 20 39 | 1365. E. 12 13 28 | JAN. . | 22 23 10 | 22 19 49 |
| | FEB. . | 24 20 44 | 25 9 17 | | FEB. . | 21 11 51 | 21 14 6 |
| | MAR. . | 26 9 28 | 26 19 20 | | MAR. . | 23 0 38 | 23 7 49 |
| | APRIL | 24 22 12 | 25 3 26 | | APRIL | 21 13 22 | 21 23 41 |
| | MAY . | 24 10 56 | 24 10 27 | | MAY . | 21 2 6 | 21 13 14 |
| | JUNE . | 22 23 40 | 22 17 24 | | JUNE . | 19 14 50 | 20 0 18 |
| | JULY . | 22 12 24 | 22 1 25 | | JULY . | 19 3 31 | 19 9 31 |
| | AUG. . | 21 1 8 | 20 11 33 | | AUG. . | 17 16 18 | 17 17 49 |
| | SEPT. . | 19 13 52 | 19 0 34 | | SEPT. . | 16 5 2 | 16 2 19 |
| | ○ | { 4 8 14 | 4 11 27 | | OCT. . | 15 17 46 | 15 11 24 |
| | OCT. . | { 19 2 36 | 18 16 39 | | NOV. . | 14 6 30 | 13 22 0 |
| | NOV. . | 17 15 20 | 17 11 38 | | DEC. . | 13 19 14 | 13 10 13 |
| | DEC. . | 17 4 4 | 17 6 41 | | | | |
| 1363. A. 13 1 51 | JAN. . | 15 16 48 | 16 1 36 | 1366. D. 12 19 17 | JAN. . | { 12 7 59 | 12 0 7 |
| | FEB. . | 14 5 33 | 14 18 26 | | ○ | { 27 2 21 | 27 14 21 |
| | MAR. . | { 15 18 17 | 16 8 17 | | FEB. . | 10 20 43 | 10 15 24 |
| | ○ | { 30 12 39 | 30 7 1 | | MAR. . | 12 9 27 | 12 7 52 |
| | APRIL | 14 7 1 | 14 19 7 | | APRIL | 10 22 11 | 11 0 31 |
| | MAY . | 13 19 45 | 14 3 34 | | MAY . | 10 10 55 | 10 16 37 |
| | JUNE . | 12 8 29 | 12 10 33 | | JUNE . | 8 23 39 | 9 7 30 |
| | JULY . | 11 21 13 | 11 17 13 | | JULY . | { 8 12 23 | 8 20 17 |
| | AUG. . | 10 9 57 | 10 0 33 | | ○ | { 28 6 45 | 22 18 40 |
| | SEPT. . | { 8 22 41 | 8 9 50 | | AUG. . | 7 1 7 | 7 7 136 |
| | ○ | { 23 17 3 | 23 22 40 | | SEPT. . | 5 13 51 | 5 17 47 |
| | OCT. . | 8 11 25 | 7 21 40 | | OCT. . | 5 2 35 | 5 8 35 |
| | NOV. . | 7 0 9 | 6 12 30 | | NOV. . | 3 15 19 | 3 13 30 |
| | DEC. . | 6 12 53 | 6 6 0 | | DEC. . | 3 4 3 | 3 0 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1367. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1370. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. O | { 1 16 47 16 11 9 31 5 31 | { 1 11 31 16 21 59 30 23 35 | March. <i>d. h. m.</i> 12 18 32 | JAN. . | 27 20 41 | 28 7 13 |
| March. <i>d. h. m.</i> 13 1 6 | FEB. . | ... | ... | | FEB. . | 26 9 25 | 26 17 48 |
| | MAR. . | { 1 18 15 31 6 59 | { 1 12 29 31 2 22 | | MAR. . | 27 22 9 | 28 2 42 |
| | APRIL | 29 19 43 | 29 17 9 | | APRIL | 26 10 53 | 26 10 29 |
| | MAY . | 29 8 27 | 29 8 31 | | O | { 11 5 15 | 11 13 45 |
| | JUNE . | 27 21 11 | 27 23 52 | | MAY . | { 25 23 37 | 25 18 4 |
| | O | { 12 15 33 | 12 8 51 | | JUNE . | 24 12 21 | 24 2 30 |
| | JULY . | 27 9 55 | 27 14 35 | | JULY . | 24 1 5 | 23 12 47 |
| | AUG. . | 25 22 39 | 26 4 16 | | AUG. . | 22 18 49 | 22 1 43 |
| | SEPT. . | 24 11 23 | 24 16 52 | | SEPT. . | 21 2 33 | 20 17 27 |
| | OCT. . | 24 0 7 | 24 4 40 | | OCT. . | 20 15 17 | 20 11 24 |
| | NOV. . | 22 12 51 | 22 15 57 | | O | { 4 9 39 | 4 5 9 |
| | DEC. . | 22 1 35 | 22 2 56 | | NOV. . | { 19 4 1 | 19 6 21 |
| | | | | | DEC. . | 18 16 45 | 19 0 49 |
| 1368. B.A. | O | { 5 19 57 | 5 22 46 | 1371. E. | JAN. . | 17 5 30 | 17 17 27 |
| 12 6 55 | JAN. . | { 20 14 20 | 20 13 40 | 13 0 21 | FEB. . | 15 18 14 | 16 7 26 |
| | FEB. . | 19 3 4 | 19 0 13 | | MAR. . | 17 6 58 | 17 13 38 |
| | MAR. . | 19 15 48 | 19 10 53 | | APRIL | { 15 19 42 | 16 3 29 |
| | APRIL | 18 4 32 | 17 22 12 | | O | { 30 14 4 | 30 14 26 |
| | MAY . | 17 17 16 | 17 10 40 | | MAY . | 15 8 26 | 15 10 48 |
| | JUNE . | 16 6 0 | 16 0 35 | | JUNE . | 13 21 10 | 13 17 34 |
| | O | { 1 0 22 | 1 2 5 | | JULY . | 13 9 54 | 13 0 53 |
| | JULY . | { 15 18 44 | 15 15 46 | | AUG. . | 11 22 38 | 11 9 51 |
| | AUG. . | 14 7 28 | 14 7 39 | | SEPT. . | 10 11 22 | 9 21 26 |
| | SEPT. . | 12 20 12 | 12 23 32 | | OCT. . | { 10 0 6 | 9 12 5 |
| | OCT. . | 12 8 56 | 12 14 44 | | O | { 24 18 28 | 24 20 59 |
| | NOV. . | 10 21 40 | 11 4 53 | | NOV. . | 8 12 50 | 8 5 35 |
| | DEC. . | 10 10 24 | 10 17 49 | | DEC. . | 8 1 34 | 8 0 51 |
| 1369. G. | JAN. . | 8 23 9 | 9 5 30 | 1372. D.C. | JAN. . | 6 14 18 | 6 20 19 |
| 12 12 44 | FEB. . | 7 11 53 | 7 15 59 | 12 6 10 | FEB. . | 5 3 2 | 5 14 19 |
| | MAR. . | 9 0 37 | 9 1 27 | | MAR. . | 5 15 46 | 6 5 39 |
| | APRIL | 7 13 21 | 7 10 22 | | APRIL | 4 4 30 | 4 17 52 |
| | MAY . | 7 2 5 | 6 19 30 | | MAY . | 3 17 14 | 4 3 20 |
| | JUNE . | 5 14 49 | 5 5 43 | | JUNE . | 2 5 53 | 2 10 52 |
| | JULY . | 5 3 33 | 4 17 48 | | JULY . | { 1 18 42 | 1 17 35 |
| | AUG. . | 3 16 17 | 3 8 4 | | | { 31 7 26 | 31 0 33 |
| | SEPT. . | 2 5 1 | 2 0 13 | | AUG. . | 29 20 10 | 29 8 49 |
| | OCT. . | { 1 17 45 | 1 17 41 | | SEPT. . | 23 8 54 | 27 19 22 |
| | O | { 31 6 29 | 31 11 10 | | OCT. . | 27 21 33 | 27 8 45 |
| | NOV. . | { 15 0 51 | 14 14 26 | | NOV. . | 26 10 22 | 26 1 0 |
| | DEC. . | { 29 19 13 | 30 3 42 | | DEC. . | 25 23 6 | 25 19 26 |
| | | 29 7 57 | 29 18 31 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1373. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1376. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | | | | March. | | | |
| <i>d. h. m.</i> | | | | <i>d. h. m.</i> | | | |
| 12 11 59 | | | | 12 5 25 | | | |
| | JAN. . | 24 11 51 | 24 14 43 | | JAN. . | 22 3 1 | 21 21 48 |
| | FEB. . | 23 0 35 | 23 9 34 | | FEB. . | 20 15 45 | 20 10 1 |
| | ○ | 9 18 57 | 9 17 16 | | MAR. . | 21 4 29 | 20 23 4 |
| | MAR. . | 24 13 19 | 25 1 37 | | APRIL | 19 17 13 | 19 13 8 |
| | APRIL | 23 2 3 | 23 15 7 | | MAY . | 19 5 57 | 19 4 5 |
| | MAY . | 22 14 47 | 23 1 48 | | JUNE . | 17 18 41 | 17 19 27 |
| | JUNE . | 21 3 31 | 21 10 19 | | JULY . | 17 7 25 | 17 10 39 |
| | JULY . | 20 16 15 | 20 17 42 | | AUG. . | 15 20 9 | 16 1 6 |
| | AUG. . | 19 4 59 | 19 1 2 | | SEPT. . | 14 8 53 | 14 14 31 |
| | SEPT. . | 17 17 43 | 17 9 20 | | OCT. . | 13 21 37 | 14 2 58 |
| | OCT. . | 17 6 27 | 16 19 21 | | NOV. . | 12 10 21 | 12 14 48 |
| | NOV. . | 15 19 11 | 15 7 36 | | DEC. . | 11 23 5 | 12 1 58 |
| | DEC. . | 15 7 55 | 14 22 13 | | | | |
| 1374. | | | | 1377. | | | |
| A. | | | | D. | | | |
| | JAN. . | 13 20 40 | 13 14 53 | | JAN. . | 10 11 50 | 10 12 48 |
| | FEB. . | 12 9 24 | 12 8 47 | | FEB. . | 9 0 31 | 8 28 15 |
| | ○ | 27 3 46 | 27 9 29 | 12 11 14 | MAR. . | 10 13 18 | 10 9 34 |
| 12 17 43 | MAR. . | 13 22 8 | 14 2 44 | | APRIL | 9 2 2 | 8 20 12 |
| | APRIL | 12 10 52 | 12 19 32 | | MAY . | 8 14 43 | 8 7 43 |
| | MAY . | 11 23 36 | 12 10 13 | | JUNE . | 7 3 30 | 6 20 46 |
| | JUNE . | 10 12 20 | 10 22 32 | | ○ | 21 21 52 | 22 2 21 |
| | JULY . | 10 1 4 | 10 8 41 | | JULY . | 6 16 14 | 6 11 18 |
| | AUG. . | 8 13 48 | 8 17 31 | | AUG. . | 5 4 58 | 5 3 1 |
| | ○ | 23 8 10 | 22 22 14 | | SEPT. . | 3 17 42 | 3 19 12 |
| | SEPT. . | 7 2 32 | 7 1 57 | | OCT. . | 3 6 23 | 3 11 5 |
| | OCT. . | 6 15 16 | 6 10 52 | | NOV. . | 1 19 10 | 2 2 6 |
| | NOV. . | 5 4 0 | 4 20 52 | | DEC. ○ | 1 7 54 | 1 15 52 |
| | DEC. . | 4 16 44 | 4 8 17 | | | 16 2 13 | 15 17 41 |
| | | | | | | 30 20 38 | 31 4 15 |
| 1375. | | | | 1378. | | | |
| G. | | | | C. | | | |
| | JAN. . | 3 5 28 | 2 21 16 | | JAN. . | 29 9 22 | 29 14 15 |
| | FEB. . | 1 18 12 | 1 11 42 | | FEB. . | 27 22 6 | 28 1 1 |
| | ○ | 16 12 34 | 17 0 34 | | MAR. . | 29 10 50 | 29 9 55 |
| 12 23 37 | MAR. . | 3 6 56 | 3 3 21 | 12 17 3 | APRIL | 27 23 34 | 27 18 37 |
| | APRIL | 1 19 40 | 1 19 43 | | MAY . | 27 12 18 | 27 3 58 |
| | MAY . | 1 8 24 | 1 12 0 | | ○ | 11 6 40 | 11 13 39 |
| | JUNE . | 30 21 8 | 31 3 26 | | JUNE . | 26 1 2 | 25 14 53 |
| | JULY . | 23 22 36 | 29 5 40 | | JULY . | 25 13 46 | 25 4 0 |
| | ○ | 12 16 58 | 12 3 40 | | AUG. . | 24 2 30 | 23 19 24 |
| | AUG. . | 27 11 20 | 27 16 35 | | SEPT. . | 22 15 14 | 22 12 30 |
| | SEPT. . | 26 0 4 | 26 2 45 | | OCT. . | 22 3 58 | 22 6 20 |
| | OCT. . | 25 12 48 | 25 12 50 | | NOV. . | 20 16 42 | 20 23 42 |
| | NOV. . | 24 1 32 | 23 23 16 | | ○ | 5 11 4 | 5 1 10 |
| | DEC. . | 23 14 16 | 23 10 15 | | DEC. . | 20 5 23 | 20 15 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1379. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1382. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 18 18 11 | 19 5 27 | March. | JAN. . | 15 9 21 | 15 9 2 |
| <i>d. h. m.</i> | FEB. . | 17 6 55 | 17 17 0 | <i>d. h. m.</i> | FEB. . | 13 22 5 | 14 3 59 |
| 12 22 52 | MAR. . | 18 19 39 | 19 2 32 | 12 16 18 | MAR. . | 15 10 49 | 15 21 26 |
| | APRIL | 17 8 23 | 17 10 36 | | ○ | 130 5 11 | 30 2 0 |
| | MAY . | 16 21 7 | 16 18 0 | | APRIL | 13 23 33 | 14 12 21 |
| | ○ | 31 15 29 | 1 0 11 | | MAY . | 13 12 17 | 14 0 21 |
| | JUNE . | 15 9 51 | 15 1 44 | | JUNE . | 12 1 1 | 12 9 53 |
| | JULY . | 14 22 35 | 14 10 54 | | JULY . | 11 13 45 | 11 17 47 |
| | AUG. . | 13 11 19 | 12 22 28 | | AUG. . | 10 2 29 | 10 1 9 |
| | SEPT. . | 12 0 3 | 11 12 53 | | SEPT. . | 8 15 13 | 8 9 3 |
| | OCT. . | 11 12 47 | 11 5 57 | | ○ | 23 9 35 | 23 9 59 |
| | NOV. . | 10 1 31 | 10 0 45 | | OCT. . | 8 3 57 | 7 18 16 |
| | DEC. . | 9 14 15 | 9 19 46 | | NOV. . | 6 16 41 | 6 5 27 |
| | | | | | DEC. . | 6 5 25 | 5 18 53 |
| 1380. | JAN. . | 8 3 0 | 8 13 33 | 1383. | JAN. . | 4 18 9 | 4 10 28 |
| A.G. | FEB. . | 6 15 44 | 7 4 56 | D. | FEB. . | 3 6 53 | 3 3 40 |
| 12 4 41 | MAR. . | 7 4 28 | 7 17 25 | 12 22 7 | MAR. . | 4 19 33 | 4 21 32 |
| | APRIL | 5 17 12 | 6 3 15 | | APRIL | 3 8 22 | 3 14 50 |
| | MAY . | 5 5 56 | 5 11 6 | | MAY . | 2 21 6 | 3 6 34 |
| | JUNE . | 3 18 40 | 3 17 56 | | JUNE . | 1 9 50 | 1 20 5 |
| | JULY . | 3 7 24 | 3 0 47 | | ○ | 30 22 34 | 30 11 18 |
| | ○ | 1 20 8 | 1 8 49 | | JULY . | 30 11 18 | 30 16 55 |
| | AUG. . | 81 8 52 | 80 19 4 | | AUG. . | 29 0 2 | 29 1 39 |
| | SEPT. . | 29 21 36 | 29 8 13 | | SEPT. . | 27 12 46 | 27 10 26 |
| | ○ | 14 15 58 | 14 19 49 | | OCT. . | 27 1 30 | 26 20 2 |
| | OCT. . | 29 10 20 | 29 0 27 | | NOV. . | 25 14 14 | 25 6 48 |
| | NOV. . | 27 23 4 | 27 19 3 | | DEC. . | 25 2 53 | 24 18 58 |
| | DEC. . | 27 11 43 | 27 14 40 | | | | |
| 1381. | JAN. . | 26 0 32 | 26 9 34 | 1384. | JAN. . | 23 15 42 | 23 8 30 |
| F. | FEB. . | 24 13 16 | 25 2 16 | C.B. | ○ | 7 10 4 | 7 22 45 |
| 12 10 30 | MAR. . | 26 2 0 | 26 15 53 | | FEB. . | 22 4 26 | 21 23 19 |
| | ○ | 9 20 22 | 9 14 23 | 12 3 56 | MAR. . | 22 17 10 | 22 15 7 |
| | APRIL | 24 14 44 | 25 2 39 | | APRIL | 21 5 54 | 21 7 18 |
| | MAY . | 24 3 28 | 24 10 59 | | MAY . | 20 18 38 | 20 23 9 |
| | JUNE . | 22 16 12 | 22 17 59 | | JUNE . | 19 7 22 | 19 13 55 |
| | JULY . | 22 4 56 | 22 0 44 | | JULY . | 18 20 6 | 19 3 11 |
| | AUG. . | 20 17 40 | 20 8 19 | | ○ | 2 14 28 | 2 1 55 |
| | SEPT. . | 19 6 24 | 18 17 45 | | AUG. . | 17 8 50 | 17 14 57 |
| | ○ | 4 0 46 | 4 6 27 | | SEPT. . | 15 21 34 | 16 1 41 |
| | OCT. . | 13 19 8 | 13 5 46 | | OCT. . | 15 10 18 | 15 12 0 |
| | NOV. . | 17 7 52 | 16 20 39 | | NOV. . | 13 23 2 | 13 22 25 |
| | DEC. . | 16 20 36 | 16 14 4 | | DEC. . | 13 11 46 | 13 9 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1385. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1388. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | { 12 0 30 | 11 20 20 | E.D. | JAN. . | 9 15 41 | 10 3 6 |
| | ○ | { 26 18 52 | 27 6 4 | March. | FEB. . | 8 4 25 | 8 15 45 |
| March. | FEB. . | 10 13 15 | 10 8 1 | <i>d. h. m.</i> | MAR. . | 8 17 9 | 9 2 7 |
| <i>d. h. m.</i> | MAR. . | 12 1 59 | 11 20 20 | 12 3 12 | APRIL | 7 5 53 | 7 10 40 |
| 12 9 45 | APRIL | 10 14 43 | 10 9 35 | | MAY . | { 6 18 37 | 6 18 7 |
| | MAY . | 10 3 27 | 9 23 52 | | ○ | { 21 12 59 | 21 20 21 |
| | JUNE . | 8 16 11 | 8 14 58 | | JUNE . | 5 7 21 | 5 1 26 |
| | JULY . | { 8 4 55 | 8 6 23 | | JULY . | 4 20 5 | 4 9 41 |
| | ○ | { 22 23 17 | 22 16 21 | | AUG. . | 3 8 49 | 2 19 55 |
| | AUG. . | 6 17 39 | 6 21 25 | | SEPT. . | 1 21 33 | 1 8 53 |
| | SEPT. . | 5 6 23 | 5 11 38 | | ○ | { 1 10 17 | 1 0 50 |
| | OCT. . | 4 19 7 | 5 0 51 | | ○ | { 14 17 23 | 14 13 59 |
| | NOV. . | 3 7 51 | 3 13 12 | | NOV. . | { 29 11 45 | 29 14 18 |
| | DEC. . | 2 20 35 | 3 0 51 | | DEC. . | 29 0 29 | 29 9 0 |
| 1386. | JAN. ○ | { 1 9 19 | 1 11 53 | 1389. | JAN. . | 27 13 18 | 28 1 41 |
| G. | ○ | { 16 3 41 | 16 6 42 | C. | FEB. . | 26 1 57 | 26 15 31 |
| | FEB. . | 30 22 3 | 30 22 25 | 12 9 0 | MAR. . | 27 14 41 | 28 2 34 |
| | ○ | ... | ... | | APRIL | 26 3 25 | 26 11 12 |
| 12 15 34 | MAR. . | { 1 10 47 | 1 8 32 | | ○ | { 10 21 47 | 10 21 3 |
| | ○ | { 30 23 31 | 30 18 40 | | MAY . | { 25 16 9 | 25 18 19 |
| | APRIL | 29 12 15 | 29 5 26 | | JUNE . | 24 4 53 | 24 0 53 |
| | MAY . | 29 0 59 | 28 17 27 | | JULY . | 23 17 37 | 23 8 18 |
| | JUNE . | 27 13 43 | 27 7 6 | | AUG. . | 22 6 21 | 21 17 22 |
| | ○ | { 12 8 5 | 12 9 32 | | SEPT. . | 20 19 5 | 20 5 5 |
| | JULY . | { 27 2 27 | 26 22 20 | | OCT. . | 20 7 49 | 19 19 52 |
| | AUG. . | 25 15 11 | 25 14 32 | | ○ | { 4 2 11 | 4 5 37 |
| | SEPT. . | 24 3 55 | 24 6 55 | | NOV. . | { 18 20 33 | 18 13 23 |
| | OCT. . | 23 16 39 | 23 22 43 | | DEC. . | 18 9 17 | 18 8 49 |
| | NOV. . | 22 5 23 | 22 13 23 | | | | |
| | DEC. . | 21 18 7 | 22 2 37 | | | | |
| 1387. | JAN. . | 20 6 51 | 20 14 18 | 1390. | JAN. . | 16 22 2 | 17 4 16 |
| F. | FEB. . | 18 19 36 | 19 0 33 | B. | FEB. . | 15 10 46 | 15 22 10 |
| 12 21 23 | MAR. . | 20 8 20 | 20 9 37 | 12 14 49 | MAR. . | 16 23 30 | 17 13 20 |
| | APRIL | 18 21 4 | 18 18 5 | | APRIL | { 15 12 14 | 16 1 24 |
| | MAY . | 18 9 48 | 18 2 47 | | ○ | { 30 6 36 | 30 0 15 |
| | JUNE . | 16 22 32 | 16 12 39 | | MAY . | 15 0 53 | 15 10 46 |
| | JULY . | 16 11 16 | 16 0 33 | | JUNE . | 13 13 42 | 13 18 18 |
| | AUG. . | 15 0 0 | 14 14 52 | | JULY . | 13 2 26 | 13 1 3 |
| | SEPT. . | 13 12 44 | 13 7 21 | | AUG. . | 11 15 10 | 11 8 12 |
| | OCT. . | 13 1 23 | 13 1 10 | | SEPT. . | 10 3 54 | 9 16 44 |
| | NOV. . | { 11 14 12 | 11 19 8 | | ○ | { 9 16 33 | 9 3 29 |
| | ○ | { 26 8 34 | 25 23 9 | | NOV. . | 8 5 22 | 7 16 59 |
| | DEC. . | 11 2 56 | 11 12 5 | | DEC. . | 7 18 6 | 7 9 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1391. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1394. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 12 20 38 | JAN. . | 6 6 51 | 6 3 27 | D. March. <i>d. h. m.</i> 12 14 4 | JAN. . | 2 22 1 | 2 19 10 |
| | FEB. . | 4 19 35 | 4 22 28 | | FEB. . | 1 10 45 | 1 6 25 |
| | MAR. . | 6 8 19 | 6 16 41 | | MAR. . | 2 23 29 | 2 18 6 |
| | ○ | 21 2 41 | 21 1 24 | | APRIL | 1 12 13 | 1 6 38 |
| | APRIL | 4 21 3 | 5 8 52 | | MAY . | 1 0 57 | 30 20 3 |
| | MAY . | 4 9 47 | 4 22 15 | | JUNE . | 29 2 25 | 29 1 54 |
| | JUNE . | 2 22 31 | 3 8 58 | | JULY . | 28 15 9 | 28 17 19 |
| | JULY . | 2 11 15 | 2 17 37 | | AUG. . | 27 3 53 | 27 8 14 |
| | AUG. . | 30 12 43 | 1 1 16 | | SEPT. . | 25 16 37 | 25 22 15 |
| | SEPT. . | 29 1 27 | 30 8 57 | | OCT. . | 25 5 21 | 25 11 18 |
| | OCT. . | 28 14 11 | 28 3 52 | | NOV. . | 23 18 5 | 23 23 30 |
| | NOV. . | 27 2 55 | 26 16 12 | | DEC. . | 23 6 49 | 23 10 55 |
| | DEC. . | 26 15 39 | 26 6 39 | | | | |
| 1392. | JAN. . | 25 4 23 | 24 22 57 | 1395. | JAN. . | 21 19 33 | 21 21 38 |
| G.F. | FEB. . | 23 17 7 | 23 16 21 | C. | FEB. . | 20 8 17 | 20 7 46 |
| | ○ | 9 11 29 | 9 17 49 | 12 19 53 | MAR. . | 21 21 1 | 21 17 35 |
| 12 2 27 | MAR. . | 24 5 51 | 24 9 51 | | APRIL | 20 9 45 | 20 3 39 |
| | APRIL | 22 18 35 | 23 2 21 | | MAY . | 19 22 29 | 19 14 44 |
| | MAY . | 22 7 19 | 22 16 59 | | JUNE . | 18 11 13 | 18 3 24 |
| | JUNE . | 20 20 3 | 21 5 25 | | ○ | 3 5 35 | 3 9 44 |
| | JULY . | 20 8 47 | 20 15 54 | | JULY . | 17 23 57 | 17 17 51 |
| | AUG. . | 18 21 31 | 19 1 9 | | AUG. . | 16 12 41 | 16 9 44 |
| | ○ | 2 15 53 | 2 5 16 | | SEPT. . | 15 1 25 | 15 2 21 |
| | SEPT. . | 17 10 15 | 17 10 2 | | OCT. . | 14 14 9 | 14 13 50 |
| | OCT. . | 16 22 59 | 16 19 22 | | NOV. . | 13 2 53 | 13 10 23 |
| | NOV. . | 15 11 43 | 15 5 39 | | DEC. . | 12 15 37 | 13 0 32 |
| | DEC. . | 15 0 27 | 14 17 6 | | ○ | 27 9 59 | 27 1 56 |
| 1393. | JAN. . | 13 13 11 | 13 5 50 | 1396. | JAN. . | 11 4 21 | 11 13 3 |
| E. | FEB. . | 12 1 56 | 11 19 48 | B.A. | FEB. . | 9 17 6 | 9 23 56 |
| | ○ | 26 20 18 | 27 8 51 | 12 1 42 | MAR. . | 10 5 50 | 10 9 21 |
| 12 8 16 | MAR. . | 13 14 40 | 13 10 52 | | APRIL | 8 13 34 | 8 17 50 |
| | APRIL | 12 3 24 | 12 2 40 | | MAY . | 8 7 18 | 8 2 4 |
| | MAY . | 11 16 8 | 11 13 36 | | JUNE . | 6 20 2 | 6 11 4 |
| | JUNE . | 10 4 52 | 10 9 53 | | ○ | 21 14 24 | 21 23 43 |
| | JULY . | 9 17 36 | 10 0 8 | | JULY . | 6 8 46 | 5 21 46 |
| | AUG. . | 8 6 20 | 8 12 49 | | AUG. . | 4 21 30 | 4 10 50 |
| | ○ | 23 0 42 | 22 11 3 | | SEPT. . | 3 10 14 | 3 2 23 |
| | SEPT. . | 6 19 4 | 7 0 17 | | OCT. . | 2 22 58 | 2 19 50 |
| | OCT. . | 6 7 43 | 6 11 0 | | NOV. . | 1 11 42 | 1 14 7 |
| | NOV. . | 4 20 32 | 4 21 33 | | DEC. ○ | 1 0 26 | 1 7 56 |
| | DEC. . | 4 9 16 | 4 8 13 | | | 15 18 43 | 15 9 52 |
| | | | | | | 30 18 10 | 31 0 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1397. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1400. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | | | | D.C. | | | |
| March. | JAN. . | 29 1 55 | 29 13 59 | March. | JAN. . | 26 17 5 | 26 16 52 |
| <i>d. h. m.</i> | FEB. . | 27 14 39 | 28 1 23 | <i>d. h. m.</i> | FEB. . | 25 5 49 | 25 11 29 |
| 12 7 31 | MAR. . | 29 3 23 | 29 10 36 | 12 0 57 | MAR. . | 25 18 33 | 26 4 40 |
| | APRIL | 27 16 7 | 27 18 20 | | O | { 9 12 55 | 9 9 50 |
| | MAY . | 27 4 51 | 27 1 28 | | APRIL | { 24 7 17 | 24 19 26 |
| | O | { 10 23 13 | 11 6 50 | | MAY . | 23 20 1 | 24 7 27 |
| | JUNE . | { 25 17 35 | 25 8 59 | | JUNE . | 22 8 45 | 22 17 6 |
| | JULY . | 25 6 19 | 24 18 6 | | JULY . | 21 21 29 | 22 1 15 |
| | AUG. . | 23 19 3 | 23 5 41 | | AUG. . | 20 10 13 | 20 8 57 |
| | SEPT. . | 22 7 47 | 21 20 14 | | SEPT. . | 18 22 57 | 18 17 12 |
| | OCT. . | 21 20 31 | 21 13 33 | | O | { 3 17 19 | 3 17 23 |
| | NOV. . | 20 9 15 | 20 8 36 | | OCT. . | { 18 11 41 | 18 2 41 |
| | DEC. . | 19 21 59 | 20 3 52 | | NOV. . | 17 0 25 | 16 14 5 |
| | | | | | DEC. . | 16 18 9 | 16 8 28 |
| 1398. | JAN. . | 18 10 43 | 18 21 44 | | | | |
| F. | FEB. . | 16 23 27 | 17 13 4 | 1401. | JAN. . | 15 1 53 | 14 18 44 |
| 12 13 20 | MAR. . | 18 12 11 | 19 1 23 | B. | FEB. . | 13 14 37 | 13 11 27 |
| | APRIL | 17 0 55 | 17 10 59 | 12 6 46 | MAR. . | 15 3 21 | 15 4 47 |
| | MAY . | 16 13 39 | 16 18 40 | | APRIL | 13 16 5 | 13 21 43 |
| | JUNE . | 15 2 23 | 15 1 22 | | MAY . | 13 4 49 | 13 13 17 |
| | JULY . | 14 15 7 | 14 8 13 | | JUNE . | 11 17 33 | 12 2 51 |
| | AUG. . | 13 3 51 | 12 16 19 | | JULY . | 11 6 17 | 11 14 24 |
| | SEPT. . | 11 16 35 | 11 2 42 | | AUG. . | 9 19 1 | 10 0 21 |
| | OCT. . | { 11 5 19 | 10 16 2 | | SEPT. . | 8 7 45 | 8 9 31 |
| | O | { 25 23 41 | 26 4 16 | | OCT. . | 7 20 29 | 7 18 49 |
| | NOV. . | 9 18 3 | 9 8 22 | | NOV. . | 6 9 13 | 6 4 45 |
| | DEC. . | 9 6 47 | 9 3 1 | | DEC. . | 5 21 57 | 5 13 39 |
| 1399. | JAN. . | 7 19 32 | 7 22 37 | 1402. | JAN. . | 4 10 42 | 4 3 42 |
| E. | FEB. . | 6 8 16 | 6 17 23 | A. | FEB. . | { 2 23 26 | 2 16 50 |
| 12 19 9 | MAR. . | 7 21 0 | 8 9 57 | | O | { 17 17 48 | 18 7 8 |
| | APRIL | { 6 9 44 | 6 23 30 | | MAR. . | 4 12 10 | 4 7 4 |
| | O | { 21 4 6 | 20 21 41 | 12 12 35 | APRIL | 3 0 54 | 2 22 16 |
| | MAY . | 5 22 28 | 6 10 5 | | MAY . | 2 13 33 | 2 14 1 |
| | JUNE . | 4 11 12 | 4 18 21 | | JUNE . | { 1 2 22 | 1 5 40 |
| | JULY . | 3 23 56 | 4 1 26 | | JUNE . | { 30 15 6 | 30 20 30 |
| | AUG. . | 2 12 40 | { 2 8 21 | | JULY . | 30 3 50 | 30 10 7 |
| | SEPT. . | { 1 1 24 | { 31 16 12 | | O | { 13 22 12 | 13 9 19 |
| | O | { 30 14 8 | 30 1 52 | | AUG. . | { 23 16 31 | 23 22 25 |
| | OCT. . | { 15 8 30 | 15 14 23 | | SEPT. . | 27 5 13 | 27 9 45 |
| | NOV. . | { 30 2 52 | 29 14 3 | | OCT. . | 26 18 2 | 26 20 33 |
| | DEC. . | 28 15 36 | 23 4 56 | | NOV. . | 25 6 46 | 25 7 13 |
| | | 28 4 20 | 27 22 13 | | DEC. . | 24 19 30 | 24 18 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|------------------------------|---------|------------------------------------|------------------------------------|------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1403. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1406. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> | JAN. . | 23 8 14 | 23 5 6 | March. <i>d. h. m.</i> | JAN. . | 19 23 24 | 20 11 35 |
| 12 18 24 | ○ | { 7 2 36 | 7 14 1 | 12 11 50 | FEB. . | 18 12 8 | 19 0 8 |
| | FEB. . | { 21 20 58 | 21 16 19 | | MAR. . | 20 0 52 | 20 10 16 |
| | MAR. . | 23 9 42 | 23 4 3 | | APRIL | 18 13 36 | 18 13 29 |
| | APRIL | 21 22 26 | 21 16 41 | | MAY . | 18 2 20 | 18 1 39 |
| | MAY . | 21 11 10 | 21 6 31 | | ○ | { 1 20 42 | 2 2 58 |
| | JUNE . | 19 23 54 | 19 21 25 | | JUNE . | { 16 15 4 | 16 8 45 |
| | JULY . | 19 12 38 | 19 12 54 | | JULY . | 16 3 43 | 15 16 54 |
| | ○ | { 3 7 0 | 2 23 56 | | AUG. . | 14 16 32 | 14 3 9 |
| | AUG. . | { 18 1 22 | 18 4 19 | | SEPT. . | 13 5 16 | 12 16 16 |
| | SEPT. . | 16 14 6 | 16 19 6 | | OCT. . | 12 18 0 | 12 8 23 |
| | OCT. . | 16 2 50 | 16 8 57 | | NOV. . | { 11 6 44 | 11 2 51 |
| | NOV. . | 14 15 34 | 14 21 48 | | ○ | { 26 1 6 | 25 22 53 |
| | DEC. . | 14 4 18 | 14 9 44 | | DEC. . | 10 19 28 | 10 22 18 |
| 1404. F.E. | JAN. . | { 12 17 3 | 12 20 49 | 1407. B. | JAN. . | 9 8 13 | 9 17 6 |
| 12 0 13 | ○ | { 27 11 25 | 27 14 29 | 12 17 39 | FEB. . | 7 20 57 | 8 9 43 |
| | FEB. . | 11 5 47 | 11 7 6 | | MAR. . | 9 9 41 | 9 23 33 |
| | MAR. . | 11 18 31 | 11 16 46 | | APRIL | 7 22 25 | 8 10 22 |
| | APRIL | 10 7 15 | 10 2 22 | | MAY . | { 7 11 9 | 7 18 47 |
| | MAY . | 9 19 59 | 9 12 36 | | ○ | { 22 5 31 | 22 3 38 |
| | JUNE . | 8 8 43 | 8 0 14 | | JUNE . | 5 23 53 | 6 1 47 |
| | JULY . | { 7 21 27 | 7 18 42 | | JULY . | 5 12 37 | 5 8 26 |
| | ○ | { 22 15 49 | 22 17 4 | | AUG. . | 4 1 21 | 3 15 50 |
| | AUG. . | 6 10 11 | 6 4 59 | | SEPT. . | 2 14 5 | 2 1 2 |
| | SEPT. . | 4 22 55 | 4 21 31 | | OCT. . | { 2 2 49 | 1 12 54 |
| | OCT. . | 4 11 39 | 4 14 26 | | ○ | { 31 15 33 | 31 3 51 |
| | NOV. . | 3 0 23 | 3 6 49 | | NOV. . | { 15 9 55 | 15 14 19 |
| | DEC. . | 2 13 7 | 2 21 57 | | DEC. . | { 30 4 17 | 29 21 30 |
| 1405. D. | JAN. . | { 1 1 52 | 1 11 21 | 1408. A.G. | JAN. . | 28 5 46 | 28 12 7 |
| 12 6 2 | FEB. . | { 30 14 36 | 30 23 2 | 11 23 23 | FEB. . | 26 18 30 | 27 5 51 |
| | ... | ... | ... | | MAR. . | 27 7 14 | 27 20 52 |
| | MAR. . | { 1 3 20 | 1 9 0 | | APRIL | 25 19 58 | 26 8 49 |
| | APRIL | { 30 16 4 | 30 17 41 | | ○ | { 10 14 20 | 10 7 16 |
| | MAY . | 26 4 48 | 29 1 43 | | MAY . | { 25 8 42 | 25 18 8 |
| | JUNE . | 28 17 32 | 28 10 2 | | JUNE . | 23 21 26 | 24 1 42 |
| | JULY . | 26 19 0 | 26 7 26 | | JULY . | 23 10 10 | 23 8 33 |
| | AUG. . | 25 7 44 | 24 21 49 | | AUG. . | 21 22 54 | 21 16 0 |
| | SEPT. . | 23 20 23 | 23 14 33 | | SEPT. . | 20 11 33 | 20 0 49 |
| | OCT. . | 23 9 12 | 23 8 43 | | OCT. . | 20 0 22 | 19 11 46 |
| | NOV. . | 21 21 56 | 22 3 11 | | NOV. . | 18 13 6 | 18 1 20 |
| | ○ | { 6 16 18 | 6 7 56 | | DEC. . | 18 1 50 | 17 17 27 |
| | DEC. . | { 21 10 40 | 21 20 27 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1409. F. March. <i>d. h. m.</i> 12 5 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1412. C.B. March. <i>d. h. m.</i> 11 22 43 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 14 34 | 16 11 24 | | JAN. . | 14 5 44 | 14 4 3 |
| | FEB. . | 15 3 18 | 15 6 2 | | FEB. . | 12 18 28 | 12 14 55 |
| | MAR. . | { 16 16 2 | 16 23 56 | | MAR. . | 13 7 12 | 13 2 4 |
| | ○ | { 31 10 24 | 31 9 22 | | APRIL | 11 19 56 | 11 13 54 |
| | APRIL | 15 4 46 | 15 15 54 | | MAY . | 11 8 40 | 11 2 52 |
| | MAY . | 14 17 30 | 15 5 16 | | JUNE . | 9 21 24 | 9 17 7 |
| | JUNE . | 13 6 14 | 13 16 3 | | JULY . | 9 10 8 | 9 8 21 |
| | JULY . | 12 18 58 | 13 0 56 | | AUG. . | 7 22 52 | 8 0 2 |
| | AUG. . | 11 7 42 | 11 8 55 | | SEPT. . | 6 11 36 | 6 15 26 |
| | SEPT. . | 9 20 26 | 9 16 59 | | OCT. . | 6 0 20 | 6 6 5 |
| | OCT. . | 9 9 10 | 9 1 58 | | NOV. . | 4 13 4 | 4 19 44 |
| | NOV. . | 7 21 54 | 7 12 29 | | DEC. . | 4 1 48 | 4 8 17 |
| | DEC. . | 7 10 38 | 7 0 51 | | | | |
| 1410. E. 12 11 6 | JAN. . | 5 23 23 | 5 15 6 | 1413. A. 12 4 32 | JAN. . | 2 14 33 | 2 19 52 |
| | FEB. . | 4 12 7 | 4 6 57 | | FEB. . | 1 3 17 | 1 6 26 |
| | MAR. . | { 6 0 51 | 5 23 48 | | MAR. . | 2 16 1 | 2 16 11 |
| | ○ | { 20 19 13 | 21 2 1 | | APRIL | { 1 4 45 | 1 1 29 |
| | APRIL | 4 13 35 | 4 16 51 | | | { 30 17 29 | 30 11 2 |
| | MAY . | 4 2 19 | 4 9 4 | | MAY . | 30 6 13 | 29 21 40 |
| | JUNE . | 2 15 3 | 2 23 41 | | JUNE . | { 28 18 57 | 28 10 4 |
| | JULY . | { 2 3 47 | 2 12 20 | | ○ | { 13 13 19 | 13 17 10 |
| | | { 31 16 31 | 31 23 10 | | JULY . | 28 7 41 | 28 0 28 |
| | AUG. . | 30 5 15 | 30 8 54 | | AUG. . | 26 20 25 | 26 16 35 |
| | ○ | { 13 23 37 | 13 12 30 | | SEPT. . | 25 9 9 | 25 9 40 |
| | SEPT. . | { 28 17 59 | 28 18 17 | | OCT. . | 24 21 53 | 25 2 42 |
| | OCT. . | 28 6 43 | 28 4 1 | | NOV. . | 23 10 37 | 23 13 46 |
| | NOV. . | 26 19 27 | 26 14 31 | | DEC. . | 22 23 21 | 23 9 14 |
| | DEC. . | 26 8 11 | 26 1 57 | | | | |
| 1411. D. 12 16 55 | JAN. . | 24 20 56 | 24 14 23 | 1414. G. 12 10 21 | ○ | { 6 17 43 | 6 10 13 |
| | FEB. . | 23 9 40 | 23 3 48 | | JAN. . | { 21 12 5 | 21 21 47 |
| | ○ | { 10 4 2 | 10 16 58 | | FEB. . | 20 0 49 | 20 8 28 |
| | MAR. . | { 24 22 24 | 24 13 15 | | MAR. . | 21 13 33 | 21 17 33 |
| | APRIL | 23 11 8 | 23 9 31 | | APRIL | 20 2 17 | 20 1 34 |
| | MAY . | 22 23 52 | 23 1 7 | | MAY . | 19 15 1 | 19 9 27 |
| | JUNE . | 21 12 36 | 21 16 27 | | JUNE . | 18 3 45 | 17 13 9 |
| | JULY . | 21 1 20 | 21 6 51 | | ○ | { 2 22 7 | 3 6 46 |
| | AUG. . | 19 14 4 | 19 20 3 | | JULY . | { 17 16 29 | 17 4 42 |
| | ○ | { 3 8 26 | 2 13 34 | | AUG. . | 16 5 13 | 15 17 46 |
| | SEPT. . | { 18 2 48 | 18 8 6 | | SEPT. . | 14 17 57 | 14 9 29 |
| | OCT. . | 17 15 32 | 17 19 24 | | OCT. . | 14 6 41 | 14 3 18 |
| | NOV. . | 16 4 16 | 16 6 20 | | NOV. . | 12 19 25 | 12 22 0 |
| | DEC. . | 15 17 0 | 15 17 12 | | DEC. . | { 12 8 9 | 12 16 8 |
| | | | | | ○ | { 27 2 31 | 26 13 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1415. F. March. <i>d. h. m.</i> 12 16 10 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1418. B. March. <i>d. h. m.</i> 12 9 36 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 20 54 | 11 8 32 | | JAN. . | 7 12 4 | 7 6 19 |
| | FEB. . | 9 9 38 | 9 22 23 | | FEB. . | 6 0 48 | 6 0 36 |
| | MAR. . | 10 22 22 | 11 9 35 | | MAR. . | 7 13 32 | 7 18 50 |
| | APRIL . | 9 11 6 | 9 18 30 | | APRIL . | { 6 2 16 | 6 11 45 |
| | MAY . | 8 23 50 | 9 1 57 | | ○ | { 20 20 38 | 20 17 31 |
| | JUNE . | { 7 12 31 | 7 8 51 | | MAY . | 5 15 0 | 6 2 23 |
| | ○ | { 22 6 56 | 22 13 25 | | JUNE . | 4 3 44 | 4 14 27 |
| | JULY . | 7 1 18 | 6 16 18 | | JULY . | 3 16 28 | 4 0 17 |
| | AUG. . | 5 14 2 | 5 1 23 | | AUG. . | { 2 5 12 | 2 8 45 |
| | SEPT. . | 4 2 46 | 3 13 2 | | | { 31 17 56 | 31 16 51 |
| | OCT. . | 3 15 30 | 3 3 46 | | SEPT. . | 30 6 40 | 30 1 28 |
| | NOV. . | 2 4 14 | 1 21 17 | | ○ | { 15 1 2 | 15 0 53 |
| | DEC. . | { 1 16 58 | 1 16 31 | | OCT. . | { 29 19 24 | 29 11 20 |
| | | { 31 5 42 | 31 11 54 | | NOV. . | 28 8 8 | 27 22 48 |
| | | | | | DEC. . | 27 20 52 | 27 12 2 |
| 1416. K.D. 11 21 59 | JAN. . | 29 18 27 | 30 5 48 | 1419. A. 12 15 25 | JAN. . | 26 9 37 | 26 2 56 |
| | FEB. . | 28 7 11 | 28 21 2 | | FEB. . | 24 22 21 | 24 19 7 |
| | MAR. . | 28 19 55 | 29 9 11 | | MAR. . | 26 11 5 | 26 11 56 |
| | APRIL . | 27 8 39 | 27 13 37 | | ○ | { 10 5 27 | 10 10 5 |
| | MAY . | 26 21 23 | 27 2 8 | | APRIL . | { 24 23 49 | 25 4 30 |
| | JUNE . | 25 10 7 | 25 8 48 | | MAY . | 24 12 33 | 24 19 55 |
| | JULY . | 24 22 51 | 24 15 43 | | JUNE . | 23 1 17 | 23 9 37 |
| | AUG. . | 23 11 35 | 22 23 59 | | JULY . | 22 14 1 | 22 21 29 |
| | SEPT. . | 22 0 19 | 21 10 32 | | AUG. . | 21 2 45 | 21 7 55 |
| | OCT. . | 21 13 3 | 21 0 1 | | SEPT. . | 19 15 29 | 19 17 37 |
| | ○ | { 5 7 25 | 5 12 48 | | OCT. . | 19 4 13 | 19 3 21 |
| | NOV. . | { 20 1 47 | 19 16 25 | | NOV. . | 17 16 57 | 17 13 36 |
| | DEC. . | 19 14 31 | 19 11 1 | | DEC. . | 17 5 41 | 17 0 35 |
| 1417. C. 12 3 48 | JAN. . | 18 3 15 | 18 6 38 | 1420. G.F. 11 21 14 | JAN. . | 15 18 25 | 15 12 23 |
| | FEB. . | 16 15 59 | 17 1 4 | | FEB. . | { 14 7 9 | 14 1 4 |
| | MAR. . | 18 4 43 | 18 17 27 | | ○ | { 29 1 31 | 29 15 9 |
| | APRIL . | 16 17 27 | 17 6 52 | | MAR. . | 14 19 53 | 14 14 42 |
| | ○ | { 1 11 49 | 1 4 54 | | APRIL . | 13 8 37 | 13 5 13 |
| | MAY . | { 16 6 11 | 16 17 23 | | MAY . | 12 21 21 | 12 20 36 |
| | JUNE . | 14 18 55 | 15 1 42 | | JUNE . | 11 10 5 | 11 12 5 |
| | JULY . | 14 7 39 | 14 8 54 | | JULY . | 10 22 49 | 11 3 6 |
| | AUG. . | 12 20 23 | 12 16 3 | | AUG. . | { 9 11 33 | 9 17 6 |
| | SEPT. . | 11 9 7 | 11 0 10 | | ○ | { 24 5 55 | 23 16 50 |
| | OCT. . | { 10 21 51 | 10 10 6 | | SEPT. . | 8 0 17 | 8 5 59 |
| | ○ | { 25 16 18 | 25 22 24 | | OCT. . | 7 13 1 | 7 17 53 |
| | NOV. . | 9 10 35 | 8 22 25 | | NOV. . | 6 1 45 | 6 5 13 |
| | DEC. . | 8 23 19 | 8 13 16 | | DEC. . | 5 14 29 | 5 16 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1421. E. | | d. h. m. | d. h. m. | A.D. 1424. B.A. | | d. h. m. | d. h. m. |
| March. d. h. m. | JAN. . | 4 3 14 | 4 3 6 | March. d. h. m. | JAN. . | { 1 18 24 31 7 8 | { 2 4 46 31 19 58 |
| 12 3 3 | FEB. . | { 2 15 58 17 10 20 | { 2 13 48 17 21 51 | 11 20 29 | FEB. . | 29 19 52 | { 1 8 25 30 18 16 |
| | MAR. . | 4 4 42 | 4 0 31 | | MAR. . | 30 8 36 | |
| | APRIL | 2 17 26 | 2 11 40 | | APRIL | 28 21 20 | 29 2 13 |
| | MAY . | { 2 6 10 31 18 54 | { 1 23 45 31 13 9 | | MAY . | 28 10 4 | 28 9 9 |
| | JUNE . | 30 7 38 | 30 3 52 | | ○ | { 12 4 26 26 22 48 | { 12 9 29 26 16 7 |
| | JULY . | 29 20 22 | 29 19 30 | | JUNE . | 26 11 32 | 26 0 15 |
| | ○ | { 13 14 44 28 9 6 | { 13 7 37 28 11 20 | | JULY . | 25 0 16 | 24 10 33 |
| | AUG. . | 26 21 50 | 27 2 42 | | AUG. . | 23 13 0 | 22 23 48 |
| | SEPT. . | 26 10 34 | 26 17 9 | | SEPT. . | 23 1 44 | 22 16 5 |
| | OCT. . | 24 23 13 | 25 6 29 | | OCT. . | 21 14 28 | 21 10 43 |
| | NOV. . | 24 12 2 | 24 18 39 | | NOV. . | ○ { 6 8 50 21 3 12 | { 6 7 50 21 6 13 |
| | DEC. . | | | | DEC. . | | |
| 1422. D. | JAN. . | 23 0 47 | 23 5 40 | 1425. G. | JAN. . | 19 15 57 | 20 1 8 |
| 12 8 52 | ○ | { 6 19 9 21 13 31 | { 6 22 13 21 15 37 | 12 2 18 | FEB. . | 18 4 41 | 18 17 46 |
| | FEB. . | 23 2 15 | 23 0 52 | | MAR. . | 19 17 25 | 20 7 23 |
| | MAR. . | 21 14 59 | 21 9 57 | | APRIL | 18 6 9 | 18 18 1 |
| | APRIL | 21 3 43 | 20 19 43 | | MAY . | 17 18 53 | 18 2 18 |
| | MAY . | 19 16 27 | 19 7 1 | | ○ | { 1 13 15 16 7 37 | { 1 10 8 18 9 14 |
| | JUNE . | 19 5 11 | 18 20 21 | | JUNE . | 15 20 21 | 15 15 55 |
| | ○ | { 2 23 33 17 17 55 | { 3 0 40 17 11 45 | | JULY . | 14 9 5 | 13 28 28 |
| | AUG. . | 16 6 39 | 16 4 40 | | AUG. . | 12 21 49 | 12 8 52 |
| | SEPT. . | 15 19 23 | 15 22 4 | | SEPT. . | 12 10 33 | 11 20 54 |
| | OCT. . | 14 8 7 | 14 14 59 | | OCT. . | { 10 23 17 25 17 39 | { 10 11 55 25 28 8 |
| | NOV. . | 13 20 51 | 14 6 30 | | NOV. . | ○ { 10 12 1 9 0 45 | { 10 5 31 9 0 48 |
| | DEC. . | | | | DEC. . | | |
| 1423. C. | JAN. . | 12 9 35 | 12 20 6 | 1426. F. | JAN. . | 9 0 45 | 9 0 48 |
| 12 14 41 | FEB. . | 10 22 19 | 11 7 38 | 12 8 7 | FEB. . | 7 18 29 | 7 19 50 |
| | MAR. . | 12 11 3 | 12 17 17 | | MAR. . | 9 2 13 | 9 18 21 |
| | APRIL | 10 23 47 | 11 1 35 | | APRIL | 7 14 57 | 8 4 12 |
| | MAY . | 10 12 31 | 10 9 15 | | MAY . | { 7 3 41 21 22 3 | { 7 16 5 21 14 12 |
| | JUNE . | 9 1 15 | 8 17 15 | | ○ | { 5 16 25 5 5 9 | { 6 1 24 5 9 6 |
| | JULY . | 8 13 59 | 8 2 40 | | JUNE . | 3 17 53 | 3 16 15 |
| | AUG. . | 7 2 43 | 6 14 24 | | AUG. . | 2 6 37 | 1 23 54 |
| | SEPT. . | 5 15 27 | 5 4 53 | | SEPT. . | { 1 19 21 31 8 5 | { 1 9 0 30 20 10 |
| | OCT. . | 5 4 11 | 4 21 55 | | OCT. . | 29 20 49 | 29 9 46 |
| | NOV. . | 3 16 55 | 3 16 30 | | NOV. . | 29 9 33 | 29 1 42 |
| | DEC. . | { 3 5 39 18 0 1 | { 3 11 16 17 16 45 | | DEC. . | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1427. E. March. <i>d. h. m.</i> 12 13 56 | JAN. . | <i>d. h. m.</i> 27 22 18 | <i>d. h. m.</i> 27 19 19 | A.D. 1430. A. March. <i>d. h. m.</i> 12 7 22 | JAN. . | <i>d. h. m.</i> 24 13 28 | <i>d. h. m.</i> 24 12 52 |
| | FEB. . | 26 11 2 | 26 13 33 | | FEB. . | 23 2 12 | 22 23 20 |
| | MAR. . | 27 23 46 | 28 7 5 | | MAR. . | 24 14 56 | 24 9 55 |
| | ○ | { 11 18 8 | 11 17 15 | | APRIL | 23 3 40 | 22 21 11 |
| | APRIL | { 26 12 30 | 26 22 50 | | MAY . | 22 16 24 | 22 9 40 |
| | MAY . | 26 1 14 | 26 12 10 | | JUNE . | 21 5 8 | 20 23 37 |
| | JUNE . | 24 13 58 | 24 23 8 | | JULY . | 20 17 52 | 20 14 52 |
| | JULY . | 24 2 42 | 24 8 19 | | AUG. . | 19 6 36 | 19 6 51 |
| | AUG. . | 22 15 26 | 22 16 40 | | ○ | { 8 0 58 | 2 15 39 |
| | SEPT. . | 21 4 10 | 21 1 9 | | SEPT. . | { 17 19 20 | 17 22 47 |
| | OCT. . | 20 16 54 | 20 10 30 | | OCT. . | 17 8 4 | 17 14 3 |
| | NOV. . | 19 5 38 | 18 21 14 | | NOV. . | 15 20 48 | 16 4 14 |
| | DEC. . | 18 18 22 | 18 9 33 | | DEC. . | 15 9 32 | 15 17 7 |
| 1428. D.C. 11 19 45 | JAN. . | 17 7 6 | 16 23 29 | 1431. G. 12 13 11 | JAN. . | 13 22 16 | 14 4 44 |
| | FEB. . | 15 19 50 | 15 14 50 | | FEB. . | 12 11 0 | 12 15 4 |
| | MAR. . | { 16 8 34 | 16 7 9 | | MAR. . | 13 23 44 | 14 0 25 |
| | ○ | { 31 2 56 | 31 10 2 | | APRIL | 12 12 28 | 12 9 5 |
| | APRIL | 14 21 18 | 14 23 43 | | MAY . | 12 1 12 | 11 18 20 |
| | MAY . | 14 10 2 | 14 15 41 | | JUNE . | 10 13 56 | 10 4 35 |
| | JUNE . | 12 22 46 | 13 6 19 | | JULY . | { 10 2 40 | 9 16 45 |
| | JULY . | 12 11 30 | 12 19 12 | | ○ | { 24 21 2 | 25 0 36 |
| | AUG. . | 11 0 14 | 11 6 30 | | AUG. . | 8 15 24 | 8 7 10 |
| | SEPT. . | { 9 12 58 | 9 16 44 | | SEPT. . | 7 4 8 | 6 23 33 |
| | ○ | { 24 7 20 | 23 19 53 | | OCT. . | 6 16 52 | 6 17 5 |
| | OCT. . | 9 1 42 | 9 2 38 | | NOV. . | 5 5 36 | 5 10 38 |
| | NOV. . | 7 14 26 | 7 12 46 | | DEC. . | 4 18 20 | 5 3 8 |
| | DEC. . | 7 3 10 | 6 23 27 | | | | |
| 1429. B. 12 1 34 | JAN. . | 5 15 55 | 5 10 48 | 1432. F.E. 11 19 0 | JAN. . | { 3 7 5 | 3 17 53 |
| | FEB. . | 4 4 39 | 3 22 49 | | ○ | { 18 1 27 | 17 18 27 |
| | MAR. . | { 5 17 23 | 5 11 41 | | FEB. . | 1 19 49 | 2 6 25 |
| | ○ | { 20 11 45 | 21 0 54 | | MAR. . | { 2 8 33 | 2 16 52 |
| | APRIL | 4 6 7 | 4 1 31 | | | { 31 21 17 | { 1 1 35 |
| | MAY . | 3 18 51 | 3 16 15 | | APRIL | 30 10 1 | { 30 9 17 |
| | JUNE . | 2 7 35 | 2 7 35 | | MAY . | 29 22 45 | 29 16 49 |
| | JULY . | { 1 20 19 | 1 22 55 | | JUNE . | 28 11 29 | 28 1 17 |
| | | { 31 9 3 | 31 13 39 | | ○ | { 13 5 51 | 13 13 51 |
| | AUG. . | 29 21 47 | 30 3 21 | | JULY . | { 23 0 13 | 27 11 44 |
| | ○ | { 13 16 9 | 13 2 15 | | AUG. . | 26 12 57 | 26 0 51 |
| | SEPT. . | { 23 10 31 | 23 16 1 | | SEPT. . | 25 1 41 | 24 16 48 |
| | OCT. . | 27 23 15 | 28 3 52 | | OCT. . | 24 14 25 | 24 10 54 |
| | NOV. . | 26 11 59 | 26 15 12 | | NOV. . | 23 3 9 | 23 5 56 |
| | DEC. . | 26 0 43 | 26 2 11 | | DEC. . | 22 15 53 | 23 0 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1433. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1436. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | ○ | { 6 10 15 | 6 3 19 | A.G. | JAN. . | 18 19 48 | 18 14 24 |
| March. | JAN. . | { 21 4 38 | 21 16 52 | March. | FEB. . | 17 8 32 | 17 8 16 |
| <i>d. h. m.</i> | FEB. . | 19 17 22 | 20 6 39 | <i>d. h. m.</i> | MAR. . | 17 21 16 | 18 2 5 |
| 12 0 49 | MAR. . | 21 6 6 | 21 17 38 | 11 18 15 | APRIL | 16 10 0 | 16 18 41 |
| | APRIL | 19 18 50 | 20 2 19 | ○ | { 1 4 22 | 1 1 8 | |
| | MAY . | 19 7 34 | 19 9 32 | MAY . | { 15 22 44 | 16 9 14 | |
| | JUNE . | 17 20 18 | 17 16 16 | JUNE . | 14 11 28 | 14 21 24 | |
| | ○ | { 2 14 40 | 2 20 1 | JULY . | 14 0 12 | 14 7 31 | |
| | JULY . | { 17 9 2 | 16 23 40 | AUG. . | 12 12 56 | 12 16 21 | |
| | AUG. . | 15 21 46 | 15 8 47 | SEPT. . | 11 1 40 | 11 0 52 | |
| | SEPT. . | 14 10 30 | 13 20 34 | OCT. . | { 10 14 24 | 10 9 55 | |
| | OCT. . | 13 23 14 | 13 11 27 | ○ | { 25 8 46 | 25 8 32 | |
| | NOV. . | 12 11 58 | 12 5 8 | NOV. . | 9 3 8 | 8 20 3 | |
| | DEC. . | 12 0 42 | 12 0 28 | DEC. . | 8 15 52 | 8 7 36 | |
| 1434. | JAN. . | 10 13 26 | 10 19 55 | 1437. | JAN. . | 7 4 36 | 6 20 37 |
| C. | FEB. . | 9 2 10 | 9 13 54 | F. | FEB. . | 5 17 20 | 5 11 4 |
| 12 6 38 | MAR. . | 10 14 54 | 11 4 50 | 12 0 4 | MAR. . | 7 6 4 | 7 2 40 |
| | APRIL | 9 3 38 | 9 16 51 | APRIL | { 5 18 48 | 5 18 57 | |
| | MAY . | 8 16 22 | 9 2 8 | ○ | { 20 13 10 | 20 17 53 | |
| | JUNE . | 7 5 6 | 7 9 35 | MAY . | 5 7 32 | 5 11 8 | |
| | JULY . | 6 17 50 | 6 16 17 | JUNE . | 3 20 16 | 4 2 27 | |
| | AUG. . | 5 6 34 | 4 23 18 | JULY . | 3 9 0 | 3 16 20 | |
| | SEPT. . | 3 19 18 | 3 7 46 | AUG. . | { 1 21 44 | 2 4 36 | |
| | OCT. . | 3 8 2 | 2 18 32 | SEPT. . | { 31 10 28 | 31 15 33 | |
| | NOV. . | 1 20 46 | 1 8 6 | OCT. . | 29 23 12 | 30 1 43 | |
| | DEC. . | { 1 9 30 | 1 0 31 | NOV. . | 29 11 56 | 29 11 59 | |
| | | { 30 22 14 | 30 19 1 | DEC. . | 28 0 40 | 27 22 30 | |
| 1435. | JAN. . | 29 10 59 | 29 14 17 | 1438. | JAN. . | 26 2 9 | 25 21 2 |
| B. | FEB. . | 27 23 43 | 28 8 33 | E. | FEB. . | 24 14 53 | 24 9 12 |
| 12 12 27 | MAR. . | 29 12 27 | 30 0 47 | 12 5 53 | ○ | { 11 9 15 | 11 23 7 |
| | APRIL | 23 1 11 | 23 14 6 | MAR. . | { 26 3 37 | 25 22 13 | |
| | ○ | { 12 19 33 | 12 12 4 | APRIL | 24 16 21 | 24 12 14 | |
| | MAY . | { 27 13 55 | 28 0 37 | MAY . | 24 5 5 | 24 3 9 | |
| | JUNE . | 26 2 39 | 26 9 2 | JUNE . | 22 17 49 | 22 18 31 | |
| | JULY . | 25 15 23 | 25 16 25 | JULY . | 22 6 33 | 22 9 44 | |
| | AUG. . | 24 4 7 | 23 23 52 | AUG. . | 20 19 17 | 21 0 12 | |
| | SEPT. . | 22 16 51 | 22 8 19 | SEPT. . | 19 8 1 | 19 13 39 | |
| | OCT. . | 22 5 35 | 21 18 31 | OCT. . | 18 20 45 | 19 2 10 | |
| | ○ | { 5 23 57 | 6 6 31 | NOV. . | 17 9 29 | 17 13 53 | |
| | NOV. . | { 20 18 19 | 20 6 56 | DEC. . | 16 22 13 | 17 1 13 | |
| | DEC. . | 20 7 3 | 19 21 41 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1439. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1442. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 15 10 58 | 15 12 0 | G. | JAN. . | 12 2 7 | 12 13 2 |
| March. | FEB. . | { 13 23 42 | 13 22 23 | March. | FEB. . | 10 14 51 | 11 4 12 |
| <i>d. h. m.</i> | O | { 28 18 4 | { 1 5 31 | <i>d. h. m.</i> | MAR. . | 12 3 35 | 12 16 28 |
| 12 11 41 | MAR. . | 15 12 26 | { 15 8 36 | 12 5 8 | APRIL . | 10 16 19 | 11 2 7 |
| | APRIL . | 14 1 10 | 13 19 10 | | MAY . | 10 5 3 | 10 9 50 |
| | MAY . | 13 18 54 | 13 6 44 | | JUNE . | { 8 17 47 | 8 16 36 |
| | JUNE . | 12 2 38 | 11 19 46 | | O | { 23 12 9 | 23 15 59 |
| | JULY . | 11 15 22 | 11 10 23 | | JULY . | 8 6 31 | 7 23 30 |
| | AUG. . | { 10 4 6 | 10 2 11 | | AUG. . | 6 19 15 | 6 7 39 |
| | O | { 24 22 28 | 24 15 26 | | SEPT. . | 5 7 59 | 4 18 5 |
| | SEPT. . | 8 16 50 | 8 18 26 | | OCT. . | 4 20 43 | 4 7 28 |
| | OCT. . | 8 5 34 | 8 10 24 | | NOV. . | 3 9 27 | 2 23 54 |
| | NOV. . | 6 18 18 | 7 1 27 | | DEC. . | { 2 22 11 | 2 18 39 |
| | DEC. . | 6 7 2 | 6 15 11 | | O | { 17 16 33 | 17 16 48 |
| 1440. | JAN. . | 4 19 46 | 5 3 31 | 1443. | JAN. . | { 1 10 56 | 1 14 17 |
| C.B. | FEB. . | { 3 8 30 | 3 14 24 | F. | FEB. . | { 30 23 40 | 31 9 4 |
| 11 17 30 | O | { 18 2 52 | 18 5 47 | | MAR. . | ... | ... |
| | MAR. . | 3 21 14 | 4 0 8 | 12 10 57 | MAR. . | { 1 12 24 | 2 1 33 |
| | APRIL . | 2 9 58 | 2 8 49 | | APRIL . | { 31 1 8 | 31 15 2 |
| | MAY . | { 1 22 42 | 1 17 26 | | MAY . | 29 13 52 | 30 1 32 |
| | JUNE . | { 81 11 26 | 81 2 48 | | O | 29 2 36 | 29 9 44 |
| | JULY . | 80 0 10 | 29 18 50 | | JUNE . | { 12 20 53 | 12 16 39 |
| | O | { 13 7 16 | 13 8 19 | | JULY . | { 27 15 20 | 27 16 40 |
| | AUG. . | { 28 1 38 | 27 18 38 | | AUG. . | 27 4 4 | 26 28 23 |
| | SEPT. . | 26 14 22 | 26 11 58 | | SEPT. . | 25 16 48 | 25 7 12 |
| | OCT. . | 26 3 6 | 26 5 48 | | OCT. . | 24 5 32 | 23 16 50 |
| | NOV. . | 24 13 50 | 24 23 11 | | NOV. . | 23 18 16 | 23 5 8 |
| | DEC. . | 24 4 34 | 24 15 2 | | O | 22 7 0 | 21 20 8 |
| 1441. | JAN. . | 22 17 19 | 23 4 44 | 1444. | JAN. . | { 7 1 22 | 7 7 55 |
| A. | FEB. . | 21 6 3 | 21 16 6 | F.D. | DEC. . | { 21 19 44 | 21 18 40 |
| 11 23 19 | MAR. . | 22 18 47 | 23 1 28 | 11 16 46 | JAN. . | 20 8 29 | 20 8 37 |
| | APRIL . | 21 7 31 | 21 9 24 | | FEB. . | 18 21 13 | 19 3 26 |
| | MAY . | 20 20 15 | 20 16 44 | | MAR. . | 19 9 57 | 19 20 42 |
| | JUNE . | 19 8 59 | 19 0 30 | | APRIL . | 17 22 41 | 18 11 24 |
| | JULY . | 18 21 43 | 18 9 47 | | MAY . | 17 11 25 | { 17 23 14 |
| | AUG. . | 17 10 27 | 16 21 30 | | O | { 1 5 47 | { 31 21 7 |
| | SEPT. . | 15 23 11 | 15 12 8 | | JUNE . | { 16 0 9 | 16 8 39 |
| | OCT. . | 15 11 55 | 15 5 25 | | JULY . | 15 12 53 | 15 16 31 |
| | NOV. . | 14 0 39 | 14 0 19 | | AUG. . | 14 1 37 | 13 23 57 |
| | DEC. . | { 18 13 23 | 13 19 21 | | SEPT. . | 12 14 21 | 12 7 53 |
| | O | { 28 7 45 | 28 1 35 | | OCT. . | 12 3 5 | 11 17 22 |
| | | | | | NOV. . | 10 15 49 | 10 4 43 |
| | | | | | DEC. . | 10 4 33 | 9 13 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1445. c. March. d. h. m. 11 22 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1448. G.F. March. d. h. m. 11 16 1 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 17 17 | 8 9 57 | | JAN. . | 6 8 27 | 6 11 7 |
| | FEB. . | 7 6 1 | 7 3 8 | | FEB. . | 4 21 11 | 4 21 35 |
| | MAR. . | 8 18 45 | 8 20 53 | | MAR. . | 5 9 55 | 5 7 36 |
| | APRIL . | 7 7 29 | 7 14 3 | | APRIL . | 8 22 39 | 8 17 39 |
| | MAY . | 6 20 13 | 7 5 37 | | MAY . | 8 11 23 | 8 4 21 |
| | JUNE . | 5 8 57 | 5 19 0 | | JUNE . | 2 0 7 | 1 16 24 |
| | JULY . | 4 21 41 | 5 6 11 | | JULY . | { 1 12 51 | 1 6 9 |
| | AUG. . | 3 10 25 | 3 15 44 | | | { 31 1 35 | 30 21 28 |
| | SEPT. . | 1 23 9 | 2 0 32 | | AUG. . | 29 14 19 | 29 13 36 |
| | OCT. . | { 1 11 53 | 1 9 27 | | ○ | { 13 8 41 | 12 23 40 |
| | | { 31 0 37 | 30 19 9 | | SEPT. . | { 28 3 3 | 28 6 14 |
| | NOV. . | 29 13 21 | 29 6 3 | | OCT. . | 27 15 47 | 27 22 5 |
| | DEC. . | 29 2 5 | 28 18 16 | | NOV. . | 26 4 31 | 26 12 45 |
| | | | | | DEC. . | 25 17 15 | 26 1 55 |
| 1446. B. 12 4 23 | JAN. . | 27 14 50 | 27 7 50 | 1449. E. 11 21 50 | JAN. . | 21 6 0 | 24 13 31 |
| | FEB. . | 26 3 34 | 25 22 38 | | FEB. . | 22 18 44 | 22 23 37 |
| | MAR. . | 27 16 18 | 27 14 21 | | MAR. . | 24 7 28 | 24 8 33 |
| | ○ | { 11 10 40 | 11 17 57 | | APRIL . | 22 20 12 | 22 16 56 |
| | APRIL . | { 26 5 2 | 26 6 28 | | MAY . | 22 8 56 | 22 1 36 |
| | MAY . | 25 17 46 | 25 22 14 | | JUNE . | 20 21 40 | 20 11 32 |
| | JUNE . | 24 6 30 | 24 12 56 | | JULY . | 20 10 24 | 19 23 33 |
| | JULY . | 23 19 14 | 24 2 9 | | ○ | { 4 4 46 | 4 8 9 |
| | AUG. . | 22 7 58 | 22 13 56 | | AUG. . | { 18 23 8 | 18 14 2 |
| | SEPT. . | 20 20 42 | 21 0 44 | | SEPT. . | 17 11 52 | 17 6 40 |
| | ○ | { 5 15 4 | 5 3 25 | | OCT. . | 17 0 36 | 17 0 37 |
| | OCT. . | { 20 9 26 | 20 11 8 | | NOV. . | 15 13 20 | 15 13 39 |
| | NOV. . | 18 22 10 | 18 21 38 | | DEC. . | 15 2 4 | 15 11 33 |
| | DEC. . | 18 10 54 | 18 8 25 | | | | |
| 1447. A. 12 10 12 | JAN. . | 16 23 39 | 16 19 36 | 1450. D. 12 3 39 | JAN. . | { 13 14 49 | 14 2 27 |
| | FEB. . | 15 12 23 | 15 7 12 | | ○ | { 28 9 11 | 28 2 33 |
| | MAR. . | { 17 1 7 | 16 19 28 | | FEB. . | 12 3 33 | 12 14 53 |
| | ○ | { 31 19 29 | { 1 8 42 | | MAR. . | 13 16 17 | 14 1 8 |
| | APRIL . | 15 13 51 | { 15 8 40 | | APRIL . | 12 5 1 | 12 9 30 |
| | MAY . | 15 2 35 | 14 22 56 | | MAY . | 11 17 45 | 11 16 52 |
| | JUNE . | 13 15 19 | 13 14 4 | | JUNE . | 10 6 29 | 10 0 9 |
| | JULY . | 13 4 3 | 13 5 27 | | JULY . | { 9 19 13 | 9 8 23 |
| | AUG. . | 11 16 47 | 11 20 12 | | ○ | { 24 18 35 | 24 20 57 |
| | SEPT. . | { 10 5 31 | 10 10 47 | | AUG. . | 8 7 57 | 7 13 53 |
| | ○ | { 24 23 53 | 24 10 6 | | SEPT. . | 6 20 41 | 6 8 3 |
| | OCT. . | 9 18 15 | 10 0 4 | | OCT. . | 6 9 25 | 6 0 13 |
| | NOV. . | 8 6 59 | 8 12 27 | | NOV. . | 4 22 9 | 4 13 37 |
| | DEC. . | 7 19 43 | 8 0 5 | | DEC. . | 4 10 53 | 4 13 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1451. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1454. f. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 12 9 28 | JAN. . | { 2 23 37 | 3 8 32 | March. <i>d. h. m.</i> 12 2 54 | JAN. . | 29 3 31 | 28 22 25 |
| | ○ | { 17 17 59 | 17 12 1 | | FEB. . | 27 16 15 | 27 15 46 |
| | FEB. . | 1 12 21 | 2 1 3 | | MAR. . | 29 4 59 | 29 9 8 |
| | MAR. . | 3 1 5 | 3 14 54 | | APRIL | 27 17 43 | 28 1 28 |
| | APRIL | 1 13 49 | 2 1 31 | | ○ | { 12 12 5 | 12 8 38 |
| | MAY . | { 1 2 38 | 1 9 59 | | MAY . | { 27 6 27 | 27 15 59 |
| | | { 30 15 17 | 30 17 0 | | JUNE . | 25 19 11 | 26 4 18 |
| | JUNE . | 29 4 1 | 28 23 40 | | JULY . | 25 7 55 | 25 14 45 |
| | ○ | { 13 22 23 | 14 2 37 | | AUG. . | 23 20 39 | 24 0 1 |
| | JULY . | { 28 16 45 | 28 7 6 | | SEPT. . | 22 9 23 | 22 9 2 |
| | AUG. . | 27 5 29 | 26 16 19 | | OCT. . | 21 22 7 | 21 18 28 |
| | SEPT. . | 25 18 13 | 25 4 15 | | ○ | { 5 16 29 | 5 16 16 |
| | OCT. . | 25 6 57 | 24 19 16 | | NOV. . | { 20 10 51 | 20 4 51 |
| | NOV. . | 23 19 41 | 23 13 3 | | DEC. . | 19 23 35 | 19 16 24 |
| | DEC. . | 23 8 25 | 23 8 26 | | | | |
| 1452. B.A. | JAN. . | 21 21 10 | 22 3 50 | 1455. E. | JAN. . | 18 12 20 | 18 5 10 |
| 11 15 16 | FEB. . | 20 9 54 | 20 21 32 | 12 8 43 | FEB. . | 17 1 4 | 16 19 6 |
| | MAR. . | 20 22 38 | 21 12 30 | | MAR. . | 18 13 48 | 18 10 7 |
| | APRIL | 19 11 22 | 20 0 21 | | APRIL | 17 2 32 | 17 1 50 |
| | MAY . | 19 0 6 | 19 9 33 | | ○ | { 1 20 54 | 2 1 16 |
| | JUNE . | 17 12 50 | 17 16 59 | | MAY . | { 16 15 16 | 16 17 44 |
| | JULY . | 17 1 34 | 16 23 47 | | JUNE . | 15 4 0 | 15 9 1 |
| | AUG. . | 15 14 18 | 15 7 2 | | JULY . | 14 16 44 | 14 23 7 |
| | SEPT. . | 14 3 2 | 13 15 43 | | AUG. . | 13 5 28 | 13 11 43 |
| | OCT. . | 13 15 46 | 13 2 41 | | SEPT. . | 11 18 12 | 11 23 13 |
| | NOV. . | 12 4 30 | 11 16 23 | | OCT. . | 11 6 56 | 11 10 7 |
| | DEC. . | 11 17 14 | 11 8 44 | | NOV. . | 9 19 40 | 9 20 44 |
| | | | | | DEC. . | 9 8 24 | 9 7 27 |
| 1453. G. | JAN. . | 10 5 59 | 10 3 8 | 1456. D.C. | JAN. . | 7 21 8 | 7 18 24 |
| 11 21 5 | FEB. . | 8 18 43 | 8 21 53 | 11 14 32 | FEB. . | 6 9 52 | 6 5 36 |
| | MAR. . | 10 7 27 | 10 16 2 | | MAR. . | { 6 22 36 | 6 17 13 |
| | APRIL | 8 20 11 | 9 7 59 | | ○ | { 21 16 58 | 22 6 55 |
| | MAY . | { 8 8 55 | 8 21 13 | | APRIL | 5 11 20 | 5 5 37 |
| | ○ | { 23 3 17 | 22 19 10 | | MAY . | 5 0 4 | 4 19 5 |
| | JUNE . | 6 21 39 | 7 7 46 | | JUNE . | 3 12 43 | 3 9 41 |
| | JULY . | 6 10 23 | 6 16 23 | | JULY . | 3 1 32 | 3 0 57 |
| | AUG. . | 4 23 7 | 5 0 3 | | AUG. . | { 1 14 16 | 1 16 24 |
| | SEPT. . | 3 11 51 | 3 7 50 | | | { 31 3 0 | 31 7 22 |
| | OCT. . | 3 0 35 | 2 16 37 | | SEPT. . | 29 15 44 | 29 21 27 |
| | NOV. . | { 1 13 19 | { 1 3 5 | | OCT. . | 29 4 28 | 29 10 32 |
| | ○ | { 16 7 41 | { 16 14 42 | | NOV. . | 27 17 12 | 27 22 45 |
| | DEC. . | { 1 2 3 | { 30 15 32 | | DEC. . | 27 5 56 | 27 10 9 |
| | | { 30 14 47 | { 30 6 16 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1457. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1460. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | P.E. | ○ | { 8 15 29 | 8 10 25 |
| March. | JAN. . | 25 18 41 | 25 20 49 | March. | JAN. . | { 23 9 51 | 23 21 12 |
| <i>d. h. m.</i> | FEB. . | 24 7 25 | 24 6 51 | <i>d. h. m.</i> | FEB. . | 21 22 35 | 22 12 19 |
| 11 20 21 | ○ | { 11 1 47 | 11 13 0 | 11 13 47 | MAR. . | 22 11 19 | 23 0 25 |
| | MAR. . | { 25 20 9 | 25 16 33 | | APRIL | 21 0 3 | 21 9 50 |
| | APRIL | 24 8 53 | 24 2 35 | | MAY . | 20 12 47 | 20 17 22 |
| | MAY . | 23 21 37 | 23 13 39 | | JUNE . | 19 1 31 | 19 0 3 |
| | JUNE . | 22 10 21 | 22 2 23 | | ○ | { 8 19 53 | 8 22 28 |
| | JULY . | 21 23 5 | 21 16 56 | | JULY . | { 18 14 15 | 18 6 57 |
| | AUG. . | 20 11 49 | 20 8 56 | | AUG. . | 17 2 59 | 16 15 18 |
| | ○ | { 4 6 11 | 3 23 21 | | SEPT. . | 15 15 43 | 15 1 47 |
| | SEPT. . | { 19 0 33 | 19 1 39 | | OCT. . | 15 4 27 | 14 15 20 |
| | OCT. . | 18 13 17 | 18 18 12 | | NOV. . | 13 17 11 | 13 7 53 |
| | NOV. . | 17 2 1 | 17 9 47 | | DEC. . | { 13 5 55 | 13 2 38 |
| | DEC. . | 16 14 45 | 16 23 53 | | ○ | { 28 0 17 | 28 1 47 |
| 1458. | JAN. . | 15 3 29 | 15 12 18 | 1461. | JAN. . | 11 18 40 | 11 22 12 |
| A. | FEB. . | { 13 16 14 | 13 23 3 | D. | FEB. . | 10 7 24 | 10 16 51 |
| 12 2 9 | ○ | { 28 10 36 | 28 13 15 | 11 19 36 | MAR. . | 11 20 8 | 12 9 11 |
| | MAR. . | 15 4 53 | 15 8 20 | | APRIL | 10 8 52 | 10 22 32 |
| | APRIL | 13 17 42 | 13 16 41 | | MAY . | 9 21 36 | 10 8 55 |
| | MAY . | 13 6 26 | 13 0 52 | | JUNE . | { 8 10 20 | 8 17 6 |
| | JUNE . | 11 19 10 | 11 9 53 | | ○ | { 23 4 42 | 22 23 19 |
| | JULY . | 11 7 54 | 10 20 42 | | JULY . | 7 23 4 | 8 0 8 |
| | AUG. . | { 9 20 38 | 9 9 55 | | AUG. . | 6 11 48 | 6 7 7 |
| | ○ | { 24 15 0 | 24 16 6 | | SEPT. . | 5 0 32 | 4 15 7 |
| | SEPT. . | 8 9 22 | 8 1 39 | | OCT. . | 4 13 16 | 4 0 58 |
| | OCT. . | 7 22 6 | 7 19 15 | | NOV. . | 3 2 0 | 2 13 20 |
| | NOV. . | 6 10 50 | 6 13 39 | | DEC. ○ | { 2 14 44 | 2 4 23 |
| | DEC. . | 5 23 34 | 6 7 26 | | | { 17 9 6 | 17 16 47 |
| | | | | | | ... | 31 21 45 |
| 1459. | JAN. . | 4 12 18 | 4 23 31 | 1462. | JAN. . | { 1 3 28 | ... |
| G. | FEB. . | 3 1 2 | 3 13 14 | C. | FEB. . | { 30 16 12 | 30 16 23 |
| 12 7 53 | MAR. . | 4 13 46 | 5 0 26 | | | ... | ... |
| | APRIL | 3 2 30 | 3 9 29 | | MAR. . | { 1 4 56 | 1 10 52 |
| | MAY . | 2 15 14 | 2 17 5 | | | { 30 17 40 | 31 8 53 |
| | JUNE . | { 1 3 53 | 1 0 9 | | APRIL | 29 6 24 | 29 18 27 |
| | | { 30 16 42 | 30 7 44 | | MAY . | 23 19 8 | 29 6 18 |
| | JULY . | 30 5 26 | 29 16 53 | | ○ | { 12 13 30 | 12 4 2 |
| | AUG. . | 23 18 10 | 23 4 45 | | JUNE . | { 27 7 52 | 27 15 51 |
| | SEPT. . | 27 6 54 | 26 19 31 | | JULY . | 26 20 36 | 26 23 59 |
| | OCT. . | 26 19 33 | 26 13 2 | | AUG. . | 25 9 20 | 25 7 47 |
| | NOV. . | 25 8 22 | 25 8 12 | | SEPT. . | 23 22 4 | 23 16 8 |
| | DEC. . | 24 21 6 | 23 3 26 | | OCT. . | 23 10 48 | 23 1 52 |
| | | | | | NOV. . | 21 23 32 | 21 13 21 |
| | | | | | DEC. . | 21 12 16 | 21 2 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1463. B. March. d. h. m. 12 7 14 | | d. h. m. | d. h. m. | A.D. 1466. E. March. d. h. m. 12 0 40 | | d. h. m. | d. h. m. |
| | JAN. . | 20 1 1 | 19 18 10 | | JAN. . | 16 16 11 | 16 20 2 |
| | FEB. . | 18 13 45 | 18 10 52 | | FEB. . | 15 4 55 | 15 6 12 |
| | MAR. . | 20 2 29 | 20 4 6 | | MAR. . | 16 17 39 | 16 15 47 |
| | APRIL | 18 15 13 | 18 20 55 | | APRIL | 15 6 23 | 15 1 17 |
| | MAY . | 18 3 57 | 18 12 21 | | MAY . | 14 19 7 | 14 11 30 |
| | JUNE . | 16 16 41 | 17 1 48 | | JUNE . | 13 7 51 | 12 23 10 |
| | JULY . | 16 5 25 | 16 13 17 | | JULY . | 12 20 35 | 12 12 45 |
| | AUG. . | 14 18 9 | 14 23 15 | | AUG. . | 11 9 19 | 11 4 9 |
| | SEPT. . | 13 6 53 | 13 8 32 | | SEPT. . | 9 22 3 | 9 20 48 |
| | OCT. . | 12 19 37 | 12 17 54 | | ○ | 24 16 25 | 24 7 49 |
| | NOV. . | 11 8 21 | 11 3 56 | | OCT. . | 9 10 47 | 9 13 48 |
| | DEC. . | 10 21 5 | 10 14 55 | | NOV. . | 7 23 31 | 8 6 14 |
| | | | | | DEC. . | 7 12 15 | 7 21 20 |
| 1464. A.G. 11 13 2 | JAN. . | 9 9 50 | 9 3 0 | 1467. D. 12 6 29 | JAN. . | 6 0 59 | 6 10 42 |
| | FEB. . | 7 22 34 | 7 16 7 | | FEB. . | 4 13 43 | 4 22 12 |
| | MAR. . | 8 11 18 | 8 6 19 | | MAR. . | 6 2 27 | 6 8 1 |
| | APRIL | 7 0 2 | 6 21 27 | | APRIL | 4 15 11 | 4 16 33 |
| | ○ | 21 18 24 | 22 1 44 | | MAY . | 4 3 55 | 4 0 29 |
| | MAY . | 6 12 46 | 6 13 8 | | JUNE . | 2 16 39 | 2 8 48 |
| | JUNE . | 5 1 30 | 5 4 43 | | JULY . | 2 5 23 | 1 18 30 |
| | JULY . | 4 14 14 | 4 19 32 | | ○ | 31 18 7 | 31 6 26 |
| | AUG. . | 3 2 58 | 3 9 8 | | ○ | 15 12 29 | 15 15 45 |
| | SEPT. . | 1 15 42 | 1 21 27 | | AUG. . | 30 6 51 | 29 21 0 |
| | ○ | 1 4 26 | 1 8 50 | | SEPT. . | 28 19 35 | 28 13 54 |
| | OCT. ○ | 15 22 48 | 15 11 8 | | OCT. . | 28 8 19 | 28 8 16 |
| | | 30 17 10 | 30 19 45 | | NOV. . | 26 21 3 | 27 2 43 |
| | NOV. . | 29 5 54 | 29 6 32 | | DEC. . | 26 9 47 | 26 19 55 |
| | DEC. . | 28 18 38 | 28 17 28 | | | | |
| 1465. F. 11 18 51 | JAN. . | 27 7 22 | 27 4 19 | 1468. C.B. 11 12 18 | JAN. . | 24 22 32 | 25 10 55 |
| | FEB. . | 25 20 6 | 25 15 27 | | ○ | 8 16 54 | 8 10 44 |
| | MAR. . | 27 8 50 | 27 8 7 | | FEB. . | 23 11 16 | 23 23 17 |
| | ○ | 11 3 12 | 11 16 19 | | MAR. . | 24 0 0 | 24 9 13 |
| | APRIL | 25 21 34 | 25 15 44 | | APRIL | 22 12 44 | 22 17 17 |
| | MAY . | 25 10 18 | 25 5 33 | | MAY . | 22 1 23 | 22 0 23 |
| | JUNE . | 23 28 2 | 23 20 29 | | JUNE . | 20 14 12 | 20 7 29 |
| | JULY . | 23 11 46 | 23 12 0 | | JULY . | 20 2 56 | 19 15 43 |
| | AUG. . | 22 0 30 | 22 3 27 | | ○ | 3 21 18 | 4 4 5 |
| | SEPT. . | 20 13 14 | 20 18 18 | | AUG. . | 18 15 40 | 18 2 9 |
| | ○ | 5 7 36 | 4 18 6 | | SEPT. . | 17 4 24 | 16 15 29 |
| | OCT. . | 20 1 53 | 20 8 12 | | OCT. . | 16 17 8 | 16 7 49 |
| | NOV. . | 18 14 42 | 18 21 4 | | NOV. . | 15 5 52 | 15 2 25 |
| | DEC. . | 18 3 26 | 18 9 1 | | DEC. . | 14 18 36 | 14 21 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1409. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1472. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | { 13 7 21 | 13 16 38 | E.D. March. | JAN. . | 10 22 31 | 10 14 30 |
| | ○ | { 23 1 43 | 27 20 39 | <i>d. h. m.</i> | FEB. . | 9 11 15 | 9 6 21 |
| March. | FEB. . | 11 20 5 | 12 9 9 | 11 11 33 | MAR. . | 9 23 59 | 9 23 10 |
| <i>d. h. m.</i> | MAR. . | 13 8 49 | 13 22 41 | | APRIL | 8 12 43 | 8 16 5 |
| 11 18 6 | APRIL | 11 21 33 | 12 9 17 | | MAY . | { 8 1 27 | 8 8 11 |
| | MAY . | 11 10 17 | 11 17 33 | | ○ | { 22 19 49 | 22 16 6 |
| | JUNE . | 9 23 1 | 10 0 29 | | JUNE . | 6 14 11 | 6 22 40 |
| | JULY . | { 9 11 45 | 9 7 8 | | JULY . | 6 2 55 | 6 11 14 |
| | ○ | { 24 6 7 | 24 9 16 | | AUG. . | 4 15 39 | 4 22 5 |
| | AUG. . | 8 0 29 | 7 14 39 | | SEPT. . | 3 4 23 | 3 7 50 |
| | SEPT. . | 6 13 13 | 6 0 3 | | OCT. . | 2 17 7 | 2 17 19 |
| | OCT. . | 6 1 57 | 5 12 8 | | Nov. ○ | { 1 5 51 | 1 3 10 |
| | NOV. . | 4 14 41 | 4 3 16 | | | { 16 0 13 | 16 0 6 |
| | DEC. . | 4 3 25 | 3 21 5 | | | { 30 18 35 | 30 18 45 |
| | | | | | DEC. . | 30 7 19 | 30 1 15 |
| 1470. | JAN. . | { 2 16 9 | 2 16 23 | 1473. | JAN. . | 28 20 3 | 28 18 39 |
| G. | ○ | { 17 10 31 | 17 11 35 | C. | FEB. . | 27 8 47 | 27 8 2 |
| | FEB. . | 1 4 53 | 1 11 37 | | MAR. . | 28 21 31 | 28 17 26 |
| 11 23 55 | MAR. . | 2 17 37 | 3 5 9 | 11 17 22 | APRIL | 27 10 15 | 27 8 38 |
| | APRIL | { 1 6 21 | 1 19 53 | | ○ | { 12 4 37 | 12 9 12 |
| | | { 30 19 5 | { 1 7 42 | | MAY . | { 26 22 59 | 27 0 13 |
| | MAY . | 30 7 49 | 30 16 52 | | JUNE . | 25 11 43 | 25 15 30 |
| | JUNE . | 28 20 33 | 29 0 23 | | JULY . | 25 0 27 | 25 5 52 |
| | JULY . | 28 9 17 | 28 7 21 | | AUG. . | 23 13 11 | 23 19 5 |
| | AUG. . | 26 22 1 | 26 14 50 | | SEPT. . | 22 1 55 | 22 7 10 |
| | SEPT. . | 25 10 45 | 24 23 48 | | OCT. . | 21 14 39 | 21 18 32 |
| | OCT. . | 24 23 29 | 24 10 59 | | ○ | { 5 9 1 | 4 23 39 |
| | NOV. . | 23 12 13 | 23 0 44 | | Nov. . | { 20 3 23 | 20 5 38 |
| | DEC. . | 23 0 57 | 22 16 57 | | DEC. . | 19 16 7 | 19 16 26 |
| 1471. | JAN. . | 21 13 42 | 21 10 57 | 1474. | JAN. . | 18 4 52 | 18 3 15 |
| F. | FEB. . | 20 2 26 | 20 5 31 | B. | FEB. . | 16 17 36 | 16 14 4 |
| 12 5 44 | MAR. . | 21 15 10 | 21 23 14 | 11 23 11 | MAR. . | 18 6 20 | 18 1 8 |
| | APRIL | 20 3 54 | 20 15 1 | | APRIL | 16 19 4 | 16 12 56 |
| | MAY . | 19 16 33 | 20 4 12 | | MAY . | 16 7 48 | 16 1 53 |
| | ○ | { 3 11 0 | 3 2 13 | | JUNE . | 14 20 32 | 14 16 10 |
| | JUNE . | { 18 5 22 | 18 14 52 | | JULY . | 14 9 16 | 14 7 26 |
| | JULY . | 17 18 6 | 17 23 43 | | AUG. . | 12 22 0 | 12 23 10 |
| | AUG. . | 16 6 50 | 16 7 45 | | SEPT. . | 11 10 44 | 11 14 40 |
| | SEPT. . | 14 19 31 | 14 15 54 | | OCT. . | 10 23 28 | 11 5 21 |
| | OCT. . | 14 8 18 | 14 1 3 | | NOV. . | 9 12 12 | 9 19 0 |
| | NOV. . | { 12 21 2 | 12 11 43 | | DEC. . | 9 0 56 | 9 7 33 |
| | ○ | { 27 15 24 | 27 22 56 | | | | |
| | DEC. . | 12 9 46 | 12 0 12 | | | | |

JERUSALEM CIVIL TIME.

| Mean Verbal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Verbal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1475. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1478. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 7 13 41 | 7 19 5 | D. | JAN. . | { 4 4 51 | 4 11 29 |
| March. | FEB. . | 6 2 23 | 6 5 31 | ○ | ○ | { 18 23 13 | 18 19 13 |
| <i>d. h. m.</i> | MAR. . | { 7 13 9 | 7 15 12 | March. | FEB. . | 2 17 35 | 3 5 14 |
| 12 4 59 | ○ | { 22 9 31 | 22 20 21 | <i>d. h. m.</i> | MAR. . | 4 6 19 | 4 20 15 |
| | APRIL . | 6 3 53 | 6 0 23 | 11 22 25 | APRIL . | 2 19 8 | 3 8 11 |
| | MAY . | 5 16 37 | 5 9 55 | | MAY . | { 2 7 47 | 2 17 26 |
| | JUNE . | 4 5 21 | 3 20 34 | | ○ | { 31 20 31 | { 1 0 51 |
| | JULY . | 3 18 5 | 3 9 2 | | JUNE . | 30 9 15 | { 30 7 30 |
| | AUG. . | { 2 6 49 | 1 23 31 | | ○ | { 15 3 37 | 15 5 0 |
| | ○ | { 31 19 13 | 31 15 50 | | JULY . | { 29 21 59 | 29 14 30 |
| | SEPT. . | { 15 13 55 | 15 7 23 | | AUG. . | 23 10 43 | 27 22 54 |
| | ○ | { 30 8 17 | 30 9 2 | | SEPT. . | 26 23 27 | 26 9 40 |
| | OCT. . | 29 21 1 | 30 2 6 | | OCT. . | 23 12 11 | 23 28 22 |
| | NOV. . | 28 9 45 | 28 18 11 | | NOV. . | 25 0 55 | 21 15 56 |
| | DEC. . | 27 22 29 | 28 8 35 | | DEC. . | 21 13 39 | 24 10 39 |
| 1476. | JAN. . | 26 11 13 | 26 21 2 | 1479. | ○ | { 8 8 1 | 8 10 44 |
| G.F. | FEB. . | 24 23 57 | 23 7 32 | C. | JAN. . | { 23 2 23 | 23 6 2 |
| | ○ | { 10 18 19 | 10 20 31 | 12 4 15 | FEB. . | 21 15 7 | 22 0 29 |
| 11 10 48 | MAR. . | { 23 12 41 | 23 16 23 | | MAR. . | 23 8 51 | 23 16 39 |
| | APRIL . | 24 1 25 | 24 0 24 | | APRIL . | 21 16 35 | 22 5 51 |
| | MAY . | 23 14 9 | 23 8 13 | | MAY . | 21 5 19 | 21 16 12 |
| | JUNE . | 22 2 53 | 21 16 53 | | JUNE . | 19 18 3 | 20 0 26 |
| | JULY . | 21 15 37 | 21 3 33 | | ○ | { 4 12 25 | 4 5 40 |
| | AUG. . | 20 4 21 | 19 16 53 | | JULY . | { 19 6 47 | 19 7 37 |
| | ○ | { 3 22 43 | 3 23 59 | | AUG. . | 17 19 31 | 17 14 52 |
| | SEPT. . | { 18 17 5 | 18 8 49 | | SEPT. . | 16 8 15 | 15 23 7 |
| | OCT. . | 18 5 49 | 18 2 46 | | OCT. . | 15 20 59 | 15 9 15 |
| | NOV. . | 16 18 33 | 16 21 32 | | NOV. . | 14 9 43 | 13 21 45 |
| | DEC. . | 16 7 17 | 16 15 39 | | DEC. . | { 18 22 27 | 18 12 44 |
| 1477. | JAN. . | 14 20 2 | 15 7 53 | 1480. | ○ | { 28 16 49 | 29 1 34 |
| K. | FEB. . | 13 8 46 | 13 21 36 | H.A. | JAN. . | 12 11 12 | 12 5 51 |
| 11 16 37 | MAR. . | 14 21 30 | 15 8 35 | 11 10 4 | FEB. . | 10 23 56 | 11 0 5 |
| | APRIL . | 13 10 14 | 13 17 22 | | MAR. . | 11 12 40 | 11 13 12 |
| | MAY . | 12 22 58 | 13 0 42 | | APRIL . | 10 1 24 | 10 10 57 |
| | JUNE . | 11 11 42 | 11 7 34 | | MAY . | 9 14 8 | 10 1 23 |
| | JULY . | 11 0 23 | 10 13 4 | | JUNE . | { 3 2 52 | 3 13 19 |
| | AUG. . | 9 13 10 | 9 0 17 | | ○ | { 22 21 14 | 22 10 53 |
| | SEPT. . | 8 1 54 | 7 12 9 | | JULY . | 7 15 36 | 7 23 5 |
| | OCT. . | 7 14 38 | 7 3 7 | | AUG. . | 6 4 20 | 6 7 31 |
| | NOV. . | 6 3 24 | 5 20 49 | | SEPT. . | 4 17 4 | 4 15 44 |
| | DEC. . | 5 16 6 | 5 16 3 | | OCT. . | 4 5 43 | 4 0 30 |
| | | | | | NOV. . | 2 13 32 | 2 10 30 |
| | | | | | DEC. . | { 2 7 16 | 1 23 6 |
| | | | | | | { 31 20 0 | 31 11 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1481. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1484. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. March. <i>d. h. m.</i> 11 15 52 | JAN. . | 30 8 44 | 30 2 20 | D.C. March. <i>d. h. m.</i> 11 9 19 | JAN. . | 27 23 54 | 28 4 51 |
| | FEB. . | 28 21 28 | 28 18 28 | | FEB. . | 26 12 38 | 26 14 40 |
| | MAR. . | 30 10 12 | 30 11 12 | | MAR. . | 27 1 22 | 26 23 47 |
| | APRIL . | 28 22 56 | 29 3 38 | | APRIL . | 25 14 6 | 25 8 49 |
| | MAY . | 28 11 40 | 28 18 57 | | MAY . | 25 2 50 | 24 18 34 |
| | JUNE . | 27 0 24 | 27 8 33 | | JUNE . | 23 15 34 | 23 5 55 |
| | JULY . | 26 13 8 | 26 20 23 | | JULY . | 23 4 18 | 22 19 23 |
| | AUG. . | 25 1 52 | 25 6 49 | | AUG. . | 21 17 2 | 21 10 57 |
| | SEPT. . | 23 14 36 | 23 16 37 | | SEPT. . | 20 5 46 | 20 3 58 |
| | OCT. . | 23 3 20 | 23 2 27 | | ○ { | 5 0 8 | 4 16 8 |
| | NOV. . | 21 16 4 | 21 12 47 | | OCT. . | 19 18 30 | 19 21 29 |
| | DEC. . | 21 4 48 | 20 23 50 | | NOV. . | 18 7 14 | 18 14 25 |
| | | | | | DEC. . | 17 19 58 | 18 5 53 |
| 1482. | JAN. . | 19 17 33 | 19 11 40 | 1485. | JAN. . | 16 8 43 | 16 19 21 |
| F. 11 21 41 | FEB. . | 18 6 17 | 18 0 18 | B. 11 15 8 | FEB. . | 14 21 27 | 15 6 46 |
| | MAR. . | 19 19 1 | 19 13 54 | | MAR. . | 16 10 11 | 16 16 16 |
| | APRIL . | 18 7 45 | 18 4 26 | | APRIL . | 14 22 55 | 15 0 25 |
| | ○ { | 3 2 7 | 3 9 23 | | MAY . | 14 11 39 | 14 8 1 |
| | MAY . | 17 20 29 | 17 19 42 | | JUNE . | 13 0 23 | 12 16 2 |
| | JUNE . | 16 9 13 | 16 11 8 | | JULY . | 12 13 7 | 12 1 32 |
| | JULY . | 15 21 57 | 16 2 8 | | AUG. . | 11 1 51 | 10 13 23 |
| | AUG. . | 14 10 41 | 14 16 10 | | ○ { | 25 20 18 | 25 23 28 |
| | SEPT. . | 12 23 25 | 13 5 4 | | SEPT. . | 9 14 35 | 9 4 8 |
| | OCT. . | 12 12 9 | 12 17 2 | | OCT. . | 9 3 19 | 8 21 20 |
| | ○ { | 27 6 31 | 26 13 59 | | NOV. . | 7 16 3 | 7 16 3 |
| | NOV. . | 11 0 53 | 11 4 26 | | DEC. . | 7 4 47 | 7 10 49 |
| | DEC. . | 10 13 37 | 10 15 30 | | | | |
| 1483. | JAN. . | 9 2 22 | 9 2 20 | 1486. | JAN. . | 5 17 32 | 6 4 16 |
| E. 12 3 30 | FEB. . | 7 15 6 | 7 12 58 | A. 11 20 57 | FEB. . | 4 6 16 | 4 19 13 |
| | MAR. . | 9 3 50 | 8 23 36 | | ○ { | 19 0 38 | 18 18 45 |
| | APRIL . | 7 16 34 | 7 10 41 | | MAR. . | 5 19 0 | 6 7 30 |
| | ○ { | 22 10 56 | 22 23 49 | | APRIL . | 4 7 44 | 4 17 10 |
| | MAY . | 7 5 18 | 6 22 45 | | MAY . | 3 20 28 | 4 0 59 |
| | JUNE . | 5 18 2 | 5 12 10 | | JUNE . | 2 9 12 | 2 7 51 |
| | JULY . | 5 6 46 | 5 2 57 | | JULY . | 1 21 56 | 1 14 50 |
| | AUG. . | 3 19 30 | 3 18 37 | | ○ { | 31 10 40 | 30 23 4 |
| | SEPT. . | 2 8 14 | 2 10 32 | | ○ { | 15 5 2 | 15 11 19 |
| | ○ { | 1 20 58 | 2 1 57 | | AUG. . | 29 23 24 | 29 9 35 |
| | OCT. ○ | 16 15 20 | 16 2 17 | | SEPT. . | 28 12 8 | 27 23 3 |
| | | 31 9 42 | 31 16 27 | | OCT. . | 28 0 52 | 27 15 32 |
| | NOV. . | 29 22 26 | 30 5 48 | | NOV. . | 26 13 36 | 26 10 19 |
| | DEC. . | 29 11 10 | 29 17 55 | | DEC. . | 26 2 20 | 26 5 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1487. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1490. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 12 2 45 | JAN. . | 24 15 4 | 25 0 33 | March. <i>d. h. m.</i> 11 20 12 | JAN. . | 21 6 14 | 20 22 52 |
| | ○ | { 8 9 26 | 8 5 10 | | FEB. . | 19 18 58 | 19 14 11 |
| | FEB. . | { 23 3 48 | 23 17 4 | | MAR. . | 21 7 42 | 21 6 26 |
| | MAR. . | 24 16 32 | 25 6 27 | | APRIL | 19 20 26 | 19 22 54 |
| | APRIL | 28 5 16 | 28 16 52 | | MAY . | 19 9 10 | 19 14 45 |
| | MAY . | 22 18 0 | 23 1 1 | | ○ | { 3 3 32 | 2 23 32 |
| | JUNE . | 21 6 44 | 21 7 55 | | JUNE . | { 17 21 54 | 18 5 18 |
| | JULY . | 20 19 28 | 20 14 38 | | JULY . | 17 10 33 | 17 18 8 |
| | ○ | { 4 13 50 | 4 15 59 | | AUG. . | 15 23 22 | 16 5 27 |
| | AUG. . | { 19 8 12 | 18 22 17 | | SEPT. . | 14 12 6 | 14 15 44 |
| | SEPT. . | 17 20 56 | 17 7 53 | | OCT. . | 14 0 50 | 14 1 43 |
| | OCT. . | 17 9 40 | 16 20 9 | | NOV. . | { 12 13 31 | 12 11 57 |
| | NOV. . | 15 22 21 | 15 11 23 | | ○ | { 27 7 56 | 27 7 59 |
| | DEC. . | 15 11 8 | 15 5 7 | | DEC. . | 12 2 18 | 11 22 42 |
| 1488. F.E. | JAN. . | { 13 23 53 | 14 0 18 | 1491. B. | JAN. . | 10 15 3 | 10 10 3 |
| 11 8 34 | ○ | { 28 18 15 | 28 20 24 | 12 2 1 | FEB. . | 9 3 47 | 8 22 3 |
| | FEB. . | 12 12 37 | 12 19 19 | | MAR. . | 10 16 31 | 10 10 53 |
| | MAR. . | 18 1 21 | 13 12 39 | | APRIL | 9 5 15 | 9 0 38 |
| | APRIL | 11 14 5 | 12 3 16 | | MAY . | { 8 17 59 | 8 15 21 |
| | MAY . | 11 2 49 | 11 14 58 | | ○ | { 23 12 21 | 23 16 44 |
| | JUNE . | 9 15 33 | 10 0 10 | | JUNE . | 7 6 43 | 7 6 39 |
| | JULY . | 9 4 17 | 9 7 49 | | JULY . | 6 19 27 | 6 21 59 |
| | AUG. . | 7 17 1 | 7 15 1 | | AUG. . | 5 8 11 | 5 12 44 |
| | SEPT. . | 6 5 45 | 5 22 49 | | SEPT. . | 3 20 55 | 4 2 23 |
| | OCT. . | 5 18 20 | 5 8 5 | | OCT. . | 3 9 39 | 3 15 10 |
| | NOV. . | 4 7 13 | 3 19 26 | | NOV. . | { 1 22 23 | 2 3 4 |
| | DEC. . | 3 19 57 | 3 9 11 | | ○ | { 16 16 45 | 16 7 37 |
| 1489. D. | JAN. . | { 2 8 42 | 2 1 12 | 1492. A.G. | JAN. . | 29 12 36 | 29 12 2 |
| 11 14 23 | ○ | { 31 21 26 | 31 18 50 | 11 7 50 | FEB. . | 23 1 20 | 27 22 23 |
| | FEB. . | ... | ... | | MAR. . | 23 14 4 | 23 8 56 |
| | MAR. . | { 2 10 10 | 2 12 58 | | APRIL | 27 2 48 | 26 20 10 |
| | APRIL | { 31 22 54 | { 1 6 21 | | MAY . | 26 15 32 | 26 8 38 |
| | MAY . | 30 11 33 | { 30 21 56 | | JUNE . | 25 4 16 | 24 22 40 |
| | ○ | { 13 18 44 | 13 9 18 | | JULY . | 24 17 0 | 24 14 0 |
| | JUNE . | { 28 13 6 | 28 21 58 | | AUG. . | 23 5 44 | 23 6 3 |
| | JULY . | 28 1 50 | 28 7 7 | | SEPT. . | 21 18 28 | 21 22 4 |
| | AUG. . | 26 14 34 | 26 15 32 | | OCT. . | 21 7 12 | 21 13 22 |
| | SEPT. . | 25 3 18 | 25 0 8 | | NOV. . | 19 19 56 | 20 3 38 |
| | OCT. . | 24 16 2 | 24 9 38 | | DEC. . | 19 8 40 | 19 16 26 |
| | NOV. . | 23 4 46 | 22 20 30 | | | | |
| | ○ | { 7 23 8 | 8 7 10 | | | | |
| | DEC. . | { 22 17 30 | 22 8 54 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1493. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1496. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | | | | C.B. | | | |
| March. | JAN. . | 17 21 24 | 18 3 56 | | JAN. . | { 15 12 34 | 15 19 28 |
| <i>d. h. m.</i> | FEB. . | 16 10 8 | 16 14 10 | | ○ | { 30 6 56 | 30 3 54 |
| 11 13 38 | MAR. . | 17 22 52 | 17 23 23 | March. | FEB. . | 14 1 18 | 14 13 8 |
| | ○ | { 1 17 14 | 2 3 30 | <i>d. h. m.</i> | MAR. . | 14 14 2 | 15 4 1 |
| | APRIL | { 16 11 36 | 16 8 7 | 11 7 5 | APRIL | 13 2 46 | 13 15 48 |
| | MAY . | 16 0 20 | 15 17 10 | | MAY . | 12 15 30 | 13 0 54 |
| | JUNE . | 14 13 4 | 14 3 27 | | JUNE . | 11 4 14 | 11 8 17 |
| | JULY . | 14 1 48 | 13 15 45 | | JULY . | 10 16 58 | 10 14 57 |
| | AUG. . | 12 14 32 | 12 6 19 | | AUG. . | 9 5 42 | 8 22 7 |
| | SEPT. . | { 11 3 16 | 10 22 52 | | SEPT. . | 7 18 26 | 7 6 44 |
| | ○ | { 25 21 38 | 25 15 39 | | OCT. . | 7 7 10 | 6 17 42 |
| | OCT. . | 10 16 0 | 10 16 30 | | NOV. . | 5 19 54 | 5 7 30 |
| | NOV. . | 9 4 44 | 9 10 6 | | DEC. . | 5 8 38 | 5 0 4 |
| | DEC. . | 8 17 23 | 9 2 36 | | | | |
| 1494. | JAN. . | 7 6 13 | 7 17 14 | 1497. | JAN. . | { 3 21 23 | 3 18 30 |
| E. | FEB. . | 5 18 57 | 6 5 37 | A. | ○ | { 18 15 45 | 18 19 37 |
| 11 19 27 | MAR. . | { 7 7 41 | 7 15 53 | | FEB. . | 2 10 7 | 2 13 48 |
| | ○ | { 22 2 3 | 22 3 46 | 11 12 53 | MAR. . | 3 22 51 | 4 8 0 |
| | APRIL | 5 20 25 | 6 0 23 | | APRIL | 2 11 35 | 2 23 58 |
| | MAY . | 5 9 9 | 5 8 3 | | MAY . | { 2 0 19 | 2 13 3 |
| | JUNE . | 3 21 53 | 3 15 34 | | | { 31 13 3 | 31 23 25 |
| | JULY . | 3 10 37 | 3 0 7 | | JUNE . | 30 1 47 | 30 7 47 |
| | AUG. . | { 1 23 21 | 1 10 41 | | ○ | { 14 20 9 | 14 12 17 |
| | | { 31 12 5 | 31 0 1 | | JULY . | { 29 14 31 | 29 15 11 |
| | ○ | { 15 6 27 | 15 8 0 | | AUG. . | 28 3 15 | 27 22 44 |
| | SEPT. . | { 30 0 49 | 29 16 9 | | SEPT. . | 26 15 59 | 26 7 20 |
| | OCT. . | 29 13 33 | 29 10 25 | | OCT. . | 26 4 43 | 25 17 42 |
| | NOV. . | 28 2 17 | 28 5 31 | | NOV. . | 24 17 27 | 24 6 17 |
| | DEC. . | 27 15 1 | 27 23 53 | | DEC. . | 24 6 11 | 23 21 9 |
| 1495. | JAN. . | 26 3 46 | 26 16 15 | 1498. | ○ | { 8 0 33 | 8 10 20 |
| D. | FEB. . | 24 16 30 | 25 5 50 | G. | JAN. . | { 22 18 55 | 22 18 53 |
| 12 1 16 | MAR. . | 26 5 14 | 26 16 37 | | FEB. . | 21 7 39 | 21 7 41 |
| | APRIL | 24 17 58 | 25 1 7 | 11 18 42 | MAR. . | 22 20 23 | 23 1 22 |
| | MAY . | 24 6 42 | 24 8 14 | | APRIL | 21 9 7 | 21 17 49 |
| | JUNE . | 22 19 26 | 22 14 59 | | MAY . | 20 21 51 | 21 8 13 |
| | JULY . | 22 8 10 | 21 22 26 | | JUNE . | 19 10 35 | 19 20 15 |
| | AUG. . | 20 20 54 | 20 7 43 | | ○ | { 4 4 57 | 3 17 56 |
| | SEPT. . | 19 9 33 | 18 19 44 | | JULY . | { 18 23 19 | 19 6 19 |
| | OCT. . | 18 22 22 | 18 10 51 | | AUG. . | 17 12 3 | 17 15 11 |
| | NOV. . | 17 11 6 | 17 4 40 | | SEPT. . | 16 0 47 | 15 23 48 |
| | DEC. . | 16 23 50 | 17 0 6 | | OCT. . | 15 13 31 | 15 8 59 |
| | | | | | NOV. . | 14 2 15 | 13 19 15 |
| | | | | | DEC. . | 13 14 59 | 13 6 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1499. F. March. <i>d. h. m.</i> 12 0 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1502. B. March. <i>d. h. m.</i> 11 17 58 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 12 3 44 | 11 19 58 | | JAN. . | 8 18 54 | 9 2 47 |
| | FEB. . | 10 16 28 | 10 10 24 | | FEB. . | 7 7 38 | 7 13 34 |
| | MAR. . | 12 5 12 | 12 1 58 | | MAR. . | 8 20 22 | 8 23 3 |
| | APRIL | 10 17 56 | 10 18 9 | | APRIL | 7 9 6 | 7 7 43 |
| | MAY . | 10 6 40 | 10 10 15 | | MAY . | 6 21 50 | 6 16 16 |
| | JUNE . | 8 19 24 | 9 1 30 | | JUNE . | 5 10 34 | 5 1 33 |
| | JULY . | 8 8 8 | 8 15 20 | | JULY . | 4 23 18 | 4 12 44 |
| | AUG. . | 6 20 52 | 7 3 33 | | AUG. . | 3 12 2 | 3 2 9 |
| | SEPT. . | 5 9 36 | 5 14 32 | | SEPT. . | 2 0 46 | 1 17 52 |
| | OCT. . | 4 22 20 | 5 0 52 | | | 1 13 30 | 1 11 16 |
| | NOV. . | 3 11 4 | 3 11 9 | | OCT. ○ | 16 7 52 | 16 0 33 |
| | DEC. . | 2 23 48 | 2 21 44 | | | 31 2 14 | 31 5 16 |
| | | | | | NOV. . | 29 14 58 | 29 22 40 |
| | | | | | DEC. . | 29 3 42 | 29 14 26 |
| 1500. E.D. 11 6 20 | JAN. . | { 1 12 32 31 1 17 | 1 8 45 30 20 17 | 1503. A. 11 23 46 | JAN. . | 27 16 27 | 28 4 0 |
| | FEB. . | 29 14 1 | 29 8 23 | | FEB. . | 26 5 11 | 26 15 13 |
| | MAR. . | 30 2 45 | 29 21 21 | | MAR. . | 27 17 55 | 28 0 23 |
| | APRIL | 23 15 29 | 28 11 20 | | APRIL | 26 6 39 | 26 8 11 |
| | ○ | { 18 9 51 | 18 16 56 | | MAY . | 25 19 23 | 25 15 23 |
| | MAY . | { 28 4 13 | 28 2 12 | | JUNE . | 24 8 7 | 23 23 15 |
| | JUNE . | 26 16 57 | 26 17 34 | | JULY . | 23 20 51 | 23 8 39 |
| | JULY . | 26 5 41 | 26 8 49 | | AUG. . | 22 9 35 | 21 20 34 |
| | AUG. . | 24 18 25 | 24 23 19 | | SEPT. . | 20 22 19 | 20 11 25 |
| | SEPT. . | 23 7 9 | 23 12 49 | | OCT. . | 20 11 3 | 20 4 52 |
| | OCT. . | 22 19 53 | 23 1 24 | | NOV. . | 18 23 47 | 18 23 53 |
| | ○ | { 6 14 15 | 6 2 59 | | DEC. . | 18 12 31 | 18 18 56 |
| | NOV. . | { 21 8 37 | 21 13 13 | | | | |
| | DEC. . | 20 21 21 | 21 0 28 | | | | |
| 1501. C. 11 12 9 | JAN. . | 19 10 5 | 19 11 11 | 1504. G.F. 11 5 35 | JAN. . | 17 1 15 | 17 12 29 |
| | FEB. . | 17 22 49 | 17 21 29 | | FEB. . | 15 14 0 | 16 3 30 |
| | MAR. . | 19 11 33 | 19 7 37 | | ○ | { 1 8 22 | 1 2 40 |
| | APRIL | 18 0 17 | 17 18 8 | | MAR. . | { 16 2 44 | 16 15 33 |
| | ○ | { 2 18 39 | 3 7 9 | | APRIL | 14 15 23 | 15 1 0 |
| | MAY . | { 17 13 1 | 17 5 40 | | MAY . | 14 4 12 | 14 8 35 |
| | JUNE . | 16 1 45 | 15 18 44 | | JUNE . | 12 16 56 | 12 15 19 |
| | JULY . | 15 14 29 | 15 9 25 | | JULY . | 12 5 40 | 11 22 15 |
| | AUG. . | 14 3 13 | 14 1 20 | | AUG. . | { 10 18 24 | 10 6 32 |
| | SEPT. . | 12 15 57 | 12 17 41 | | ○ | { 25 12 46 | 25 18 33 |
| | OCT. . | { 12 4 41 | 12 9 43 | | SEPT. . | 9 7 8 | 8 17 10 |
| | ○ | { 26 23 3 | 26 10 36 | | OCT. . | 8 19 52 | 8 6 48 |
| | NOV. . | 10 17 25 | 11 0 47 | | NOV. . | 7 8 36 | 6 23 25 |
| | DEC. . | 10 6 9 | 10 14 30 | | DEC. . | 6 21 20 | 6 18 16 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1505. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1508. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 11 11 24 | JAN. . | 5 10 4 | 5 13 54 | March. <i>d. h. m.</i> 11 4 51 | JAN. . | 3 1 14 | 2 17 37 |
| | FEB. . | { 3 22 48 | 4 8 33 | | FEB. . | 1 13 58 | 1 7 10 |
| | ○ | { 18 17 10 | 18 13 37 | | ○ | { 2 2 42 | 1 21 56 |
| | MAR. . | 5 11 32 | 6 0 50 | | MAR. . | { 31 15 26 | 31 13 35 |
| | APRIL | 4 0 16 | 4 14 4 | | APRIL | 30 4 10 | 30 5 36 |
| | MAY . | 3 13 0 | 4 0 22 | | MAY . | 29 16 54 | 29 21 17 |
| | JUNE . | 2 1 44 | 2 8 27 | | ○ | { 18 11 16 | 18 6 55 |
| | JULY . | { 1 14 28 | 1 15 22 | | JUNE . | { 28 5 38 | 28 11 55 |
| | ○ | { 31 3 12 | 30 22 13 | | JULY . | 27 18 22 | 28 1 7 |
| | AUG. . | { 14 21 34 | 14 22 45 | | AUG. . | 26 7 6 | 26 12 55 |
| | SEPT. . | { 29 15 56 | 29 6 6 | | SEPT. . | 24 19 50 | 24 23 47 |
| | OCT. . | 28 4 40 | 27 15 54 | | OCT. . | 24 8 34 | 24 10 16 |
| | NOV. . | 27 17 24 | 27 4 20 | | NOV. . | 22 21 18 | 22 20 51 |
| | DEC. . | 26 6 8 | 25 19 35 | | ○ | { 7 15 40 | 7 15 56 |
| | | 25 18 52 | 25 13 14 | | DEC. . | { 22 10 2 | 22 7 40 |
| 1506. D. | JAN. . | 24 7 36 | 24 8 8 | 1509. G. | JAN. . | 20 22 47 | 20 18 49 |
| 11 17 13 | ○ | { 8 1 58 | 8 5 7 | 11 10 39 | FEB. . | 19 11 31 | 19 6 23 |
| | FEB. . | { 22 20 21 | 23 2 53 | | MAR. . | 21 0 15 | 20 18 35 |
| | MAR. . | 24 9 5 | 24 19 58 | | APRIL | 19 12 59 | 19 7 45 |
| | APRIL | 23 21 49 | 23 10 27 | | MAY . | 19 1 43 | 18 21 59 |
| | MAY . | 22 10 33 | 22 22 6 | | ○ | { 2 20 5 | 3 0 12 |
| | JUNE . | 20 23 17 | 21 7 24 | | JUNE . | { 17 14 27 | 17 13 6 |
| | JULY . | 20 12 1 | 20 15 17 | | JULY . | 17 3 11 | 17 4 32 |
| | AUG. . | 19 0 45 | 18 22 48 | | AUG. . | 15 15 55 | 15 19 33 |
| | SEPT. . | 17 13 29 | 17 6 55 | | SEPT. . | 14 4 39 | 14 9 57 |
| | OCT. . | 17 2 13 | 16 16 29 | | OCT. . | 13 17 23 | 13 23 17 |
| | NOV. . | 15 14 57 | 15 4 1 | | NOV. . | { 12 6 7 | 12 11 42 |
| | DEC. . | 15 3 41 | 14 17 48 | | ○ | { 27 0 29 | 26 15 42 |
| 1507. C. | JAN. . | 13 16 25 | 13 9 25 | 1510. F. | JAN. . | 10 7 35 | 10 10 22 |
| 11 23 2 | FEB. . | 12 5 9 | 12 2 36 | 11 16 28 | FEB. . | 8 20 19 | 8 20 43 |
| | MAR. . | 13 17 53 | 13 20 15 | | MAR. . | 10 9 3 | 10 6 38 |
| | APRIL | 12 6 37 | 12 13 16 | | APRIL | 8 21 47 | 8 16 36 |
| | MAY . | 11 19 21 | 12 4 41 | | MAY . | 8 10 31 | 8 3 18 |
| | JUNE . | { 10 8 5 | 10 17 56 | | JUNE . | 6 23 15 | 6 15 22 |
| | ○ | { 25 2 27 | 24 16 23 | | JULY . | 6 11 59 | 6 5 12 |
| | JULY . | 9 20 49 | 10 5 3 | | AUG. . | 5 0 43 | 4 20 35 |
| | AUG. . | 8 9 33 | 8 14 41 | | SEPT. . | 3 13 27 | 3 13 0 |
| | SEPT. . | 6 22 17 | 6 23 27 | | OCT. . | 3 2 11 | 3 5 33 |
| | OCT. . | 6 11 1 | 6 8 29 | | NOV. . | 1 14 55 | 1 21 27 |
| | NOV. . | 4 23 45 | 4 13 20 | | DEC. . | { 1 3 39 | 1 12 8 |
| | DEC. . | { 4 12 29 | 4 5 20 | | | { 30 16 23 | 31 1 14 |
| | ○ | { 19 6 51 | 19 15 26 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|--------------|------------------------------------|------------------------------------|
| A.D. 1511. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1514. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | A. | | | |
| March. | JAN. . | 29 5 8 | 29 12 44 | March. | JAN. . | 25 20 18 | 26 8 22 |
| <i>d. h. m.</i> | FEB. . | 27 17 52 | 27 22 40 | <i>d. h. m.</i> | ○ { 9 14 40 | 9 12 31 | |
| 11 22 17 | MAR. . | 29 6 36 | 29 7 28 | 11 15 43 | FEB. . | (24 9 2 | 24 20 54 |
| | ○ | (13 0 58 | 13 10 32 | | MAR. . | 25 21 46 | 26 11 37 |
| | APRIL | (27 19 20 | 27 15 35 | | APRIL | 24 10 30 | 24 23 16 |
| | MAY . | 27 8 4 | 27 0 24 | | MAY . | 23 23 14 | 24 8 19 |
| | JUNE . | 25 20 48 | 25 10 24 | | JUNE . | 22 11 58 | 22 15 41 |
| | JULY . | 25 9 32 | 24 22 34 | | JULY . | 22 0 42 | 21 22 32 |
| | AUG. . | 23 22 16 | 23 13 13 | | AUG. . | 20 13 26 | 20 5 52 |
| | SEPT. . | 22 11 0 | 22 6 1 | | SEPT. . | 19 2 10 | 18 14 43 |
| | ○ | { 7 5 22 | 7 0 2 | | OCT. . | 18 14 54 | 18 1 53 |
| | OCT. . | { 21 23 44 | 22 0 4 | | NOV. . | 17 8 33 | 16 15 46 |
| | NOV. . | 20 12 28 | 20 18 9 | | DEC. . | 16 16 22 | 16 8 16 |
| | DEC. . | 20 1 12 | 20 11 1 | | | | |
| 1512. | JAN. . | 18 13 56 | 19 1 47 | 1515. | JAN. . | { 15 5 6 | 15 2 34 |
| D.C. | FEB. . | 17 2 40 | 17 14 5 | G. | ○ { 29 23 23 | 30 4 25 | |
| 11 4 6 | MAR. . | 17 13 24 | 18 0 5 | 11 21 32 | FEB. . | 13 17 50 | 13 21 26 |
| | ○ | { 1 9 46 | 1 10 48 | | MAR. . | 15 6 34 | 15 15 20 |
| | APRIL | { 16 4 8 | 16 8 19 | | APRIL | 13 19 18 | 14 7 6 |
| | MAY . | 15 16 52 | 15 15 36 | | MAY . | 13 8 2 | 13 20 8 |
| | JUNE . | 14 5 36 | 13 22 52 | | JUNE . | 11 20 46 | 12 6 33 |
| | JULY . | 13 18 20 | 13 7 16 | | JULY . | { 11 9 30 | 11 15 7 |
| | AUG. . | 12 7 4 | 11 17 51 | | ○ { 26 8 52 | 25 18 55 | |
| | SEPT. . | { 10 19 48 | 10 7 17 | | AUG. . | 9 22 14 | 9 22 50 |
| | ○ | { 25 14 10 | 25 16 8 | | SEPT. . | 8 10 58 | 8 6 43 |
| | OCT. . | 10 8 32 | 9 23 37 | | OCT. . | 7 23 42 | 7 15 40 |
| | NOV. . | 8 21 16 | 8 18 9 | | NOV. . | 6 12 26 | 6 2 16 |
| | DEC. . | 8 10 0 | 8 13 31 | | DEC. . | 6 1 10 | 5 14 53 |
| 1513. | JAN. . | 6 22 45 | 7 8 4 | 1516. | JAN. . | { 4 13 55 | 4 5 33 |
| B. | FEB. . | 5 11 29 | 6 0 26 | F.E. | ○ { 19 8 17 | 19 10 2 | |
| 11 9 55 | MAR. . | { 7 0 13 | 7 13 53 | 11 3 21 | FEB. . | 3 2 39 | 2 21 52 |
| | ○ | { 21 18 35 | 21 13 23 | | MAR. . | 3 15 23 | 3 15 8 |
| | APRIL | 5 12 57 | 6 0 27 | | APRIL | 2 4 7 | 2 8 24 |
| | MAY . | 5 1 41 | 5 8 45 | | MAY . | { 1 16 51 | 2 0 36 |
| | JUNE . | 3 14 25 | 3 15 43 | | ○ { 31 5 35 | 31 14 59 | |
| | JULY . | 3 3 9 | 2 22 22 | | JUNE . | 29 18 19 | 30 3 12 |
| | AUG. . | { 1 15 53 | 1 5 54 | | ○ | { 14 12 41 | 14 0 59 |
| | ○ | { 31 4 37 | 30 15 19 | | JULY . | { 29 7 3 | 29 13 37 |
| | SEPT. . | { 14 22 59 | 15 4 37 | | AUG. . | 27 19 47 | 27 22 56 |
| | ○ | { 29 17 21 | 29 3 27 | | SEPT. . | 26 8 31 | 26 8 2 |
| | OCT. . | 29 6 5 | 28 18 42 | | OCT. . | 25 21 15 | 25 17 36 |
| | NOV. . | 27 18 49 | 27 12 37 | | NOV. . | 24 9 59 | 24 4 6 |
| | DEC. . | 27 7 33 | 27 8 8 | | DEC. . | 23 22 43 | 23 15 43 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|----------|------------------------------------|------------------------------------|--|-----------|------------------------------------|------------------------------------|
| A.D. 1517. D. March. d. h. m. 11 9 10 | | d. h. m. | d. h. m. | A.D. 1520. A.G. March. d. h. m. 11 2 36 | | d. h. m. | d. h. m. |
| | JAN. . | 22 11 27 | 22 4 28 | | JAN. . | 20 2 38 | 20 11 31 |
| | FEB. . | 21 0 11 | 20 18 28 | | FEB. . | 18 15 22 | 18 22 9 |
| | MAR. . | 22 12 56 | 22 9 21 | | MAR. . | 19 4 6 | 19 7 17 |
| | APRIL | 21 1 40 | 21 1 0 | | APRIL | 17 16 50 | 17 15 31 |
| | MAY . | 20 14 24 | 20 16 49 | | ○ { | 2 11 12 | 2 21 28 |
| | JUNE . | 19 3 8 | 19 8 2 | | MAY . { | 17 5 34 | 16 23 40 |
| | JULY . | 18 15 52 | 18 22 6 | | JUNE . | 15 18 18 | 15 8 42 |
| | AUG. . | 17 4 36 | 17 10 48 | | JULY . | 15 7 2 | 14 19 38 |
| | SEPT. . | 15 17 20 | 15 22 22 | | AUG. . | 13 19 46 | 13 9 1 |
| | OCT. . | 15 6 4 | 15 9 15 | | SEPT. . | 12 8 30 | 12 0 56 |
| | NOV. . | 13 18 48 | 13 19 56 | | OCT. . { | 11 21 14 | 11 18 42 |
| | DEC. . | 13 7 32 | 13 6 42 | | ○ { | 26 15 36 | 26 9 11 |
| | | | | | NOV. . | 10 9 58 | 10 13 10 |
| | | | | | DEC. . | 9 22 42 | 10 6 56 |
| 1518. C. 11 14 59 | JAN. . | 11 20 16 | 11 17 38 | 1521. F. 11 8 25 | JAN. . | 8 11 26 | 8 22 56 |
| | FEB. . | 10 9 0 | 10 4 47 | | FEB. . | 7 0 10 | 7 12 27 |
| | MAR. . | 11 21 44 | 11 16 20 | | MAR. . | 8 12 51 | 8 23 29 |
| | APRIL | 10 10 28 | 10 4 41 | | APRIL | 7 1 38 | 7 8 21 |
| | MAY . { | 9 23 12 | 9 18 7 | | MAY . | 6 14 22 | 6 15 50 |
| | ○ { | 24 17 34 | 25 0 23 | | JUNE . | 5 3 6 | 4 22 52 |
| | JUNE . | 8 11 56 | 8 8 42 | | JULY . | 4 15 50 | 4 6 30 |
| | JULY . | 8 0 40 | 8 0 3 | | AUG. . | 3 4 34 | 2 15 52 |
| | AUG. . | 6 13 24 | 6 15 31 | | SEPT. . | 1 17 18 | { 1 8 51 |
| | SEPT. . | 5 2 8 | 5 6 31 | | ○ { | 1 6 2 | { 30 18 52 |
| | OCT. . | 4 14 52 | 4 20 39 | | OCT. . { | 30 18 46 | 30 12 38 |
| | NOV. . { | 3 3 36 | 3 9 49 | | NOV. . | 29 7 30 | 29 7 48 |
| | ○ { | 17 21 58 | 17 11 6 | | DEC. . | 28 20 14 | 29 8 1 |
| | DEC. . | 2 16 20 | 2 22 3 | | | | |
| 1519. B. 11 20 48 | JAN. . { | 1 5 4 | 1 9 25 | 1522. E. 11 14 14 | JAN. . | 27 8 59 | 27 20 38 |
| | FEB. . | { 30 17 49 | 30 20 0 | | FEB. . | 25 21 43 | 26 11 28 |
| | MAR. . { | 1 6 33 | 1 5 55 | | ○ { | 12 16 5 | 12 10 27 |
| | APRIL | { 30 19 17 | 30 15 32 | | MAR. . { | 27 10 27 | 27 23 26 |
| | ○ { | 14 2 23 | 14 14 24 | | APRIL | 25 23 11 | 26 8 40 |
| | MAY . { | 28 20 45 | 28 12 35 | | MAY . | 25 11 55 | 25 16 6 |
| | JUNE . | 27 9 29 | 27 1 22 | | JUNE . | 24 0 39 | 23 22 44 |
| | JULY . | 26 22 13 | 26 16 1 | | JULY . | 23 13 23 | 23 5 43 |
| | AUG. . | 25 10 57 | 25 8 9 | | AUG. . | 22 2 7 | 21 14 7 |
| | SEPT. . | 23 23 41 | 24 0 58 | | ○ { | 5 20 29 | 6 2 1 |
| | OCT. . | 23 12 25 | 23 17 35 | | SEPT. . { | 20 14 51 | 20 0 54 |
| | ○ { | 7 6 47 | 6 19 3 | | OCT. . | 20 3 35 | 19 14 40 |
| | NOV. . { | 22 1 9 | 22 9 10 | | NOV. . | 18 16 19 | 18 7 24 |
| | DEC. . | 21 13 53 | 21 23 5 | | DEC. . | 18 5 8 | 18 2 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|-----------|------------------------------------|------------------------------------|----------------------------|-----------|------------------------------------|------------------------------------|
| A.D. 1523. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1526. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 16 17 47 | 16 21 46 | G. | JAN. . | 13 8 57 | 13 2 17 |
| March. | FEB. . | 15 6 31 | 15 16 16 | March. | FEB. . | 11 21 41 | 11 15 23 |
| <i>d. h. m.</i> | ○ | { 2 0 53 | 1 21 56 | <i>d. h. m.</i> | MAR.. | 13 10 25 | 13 5 32 |
| 11 20 8 | MAR.. | {16 19 15 | 17 8 25 | 11 13 29 | APRIL | 11 23 9 | 11 20 36 |
| | APRIL | 15 7 59 | 15 21 30 | | MAY . | 11 11 53 | 11 12 12 |
| | MAY . | 14 20 43 | 15 7 44 | | JUNE . | {10 0 37 | 10 3 45 |
| | JUNE . | 13 9 27 | 13 15 49 | | ○ | {24 18 59 | 24 14 19 |
| | JULY . | 12 22 11 | 12 22 51 | | JULY . | 9 13 21 | 9 18 42 |
| | AUG. . | {11 10 55 | 11 5 53 | | AUG. . | 8 2 5 | 8 8 8 |
| | ○ | {26 5 17 | 26 5 38 | | SEPT.. | 6 14 49 | 6 20 29 |
| | SEPT.. | 9 23 39 | 9 14 2 | | OCT. . | 6 3 33 | 6 7 57 |
| | OCT. . | 9 12 23 | 9 0 5 | | NOV. . | 4 16 17 | 4 18 56 |
| | NOV. . | 8 1 7 | 7 12 39 | | DEC. . | { 4 5 1 | 4 5 47 |
| | DEC. . | 7 13 51 | 7 3 52 | | ○ | {18 23 23 | 18 23 54 |
| 1524. | JAN. . | 6 2 36 | 5 21 19 | 1527. | JAN. . | 2 17 46 | 2 16 37 |
| C.B. | FEB. . | { 4 15 20 | 4 15 54 | F. | FEB. . | 1 6 30 | 1 3 30 |
| | ○ | {19 9 42 | 19 13 43 | 11 19 18 | MAR.. | 2 19 14 | 2 14 34 |
| 11 1 52 | MAR.. | 5 4 4 | 5 10 16 | | APRIL | { 1 7 58 | 1 2 11 |
| | APRIL | 3 16 48 | 4 3 6 | | {30 20 42 | 30 14 46 | |
| | MAY . | 3 5 32 | 3 17 29 | | MAY . | 30 9 26 | 30 4 36 |
| | JUNE . | 1 18 16 | 2 5 11 | | ○ | {14 3 43 | 14 7 38 |
| | JULY . | { 1 7 0 | 1 14 38 | | JUNE . | {28 22 10 | 28 19 31 |
| | {30 19 44 | 30 22 47 | | | JULY . | 28 10 54 | 28 11 6 |
| | AUG. . | 29 8 28 | 29 6 39 | | AUG. . | 26 23 38 | 27 2 38 |
| | SEPT.. | 27 21 12 | 27 15 10 | | SEPT.. | 25 12 22 | 25 17 32 |
| | OCT. . | 27 9 56 | 27 1 1 | | OCT. . | 25 1 6 | 25 7 29 |
| | NOV. . | 25 22 40 | 25 12 40 | | NOV. . | 23 13 50 | 23 20 23 |
| | DEC. . | 25 11 24 | 25 2 14 | | ○ | { 8 8 12 | 7 23 50 |
| 1525. | JAN. . | 24 0 9 | 23 17 36 | | DEC. . | {23 2 34 | 23 8 18 |
| A. | FEB. . | 22 12 53 | 22 10 15 | 1528. | JAN. . | 21 15 19 | 21 19 14 |
| 11 7 41 | MAR.. | 24 1 37 | 24 3 24 | E.D. | FEB. . | 20 4 3 | 20 5 17 |
| | APRIL | 22 14 21 | 22 20 5 | 11 1 7 | MAR.. | 20 16 47 | 20 14 45 |
| | MAY . | 22 3 5 | 22 11 23 | | APRIL | 19 5 31 | 19 0 12 |
| | JUNE . | 20 15 49 | 21 0 44 | | MAY . | 13 13 15 | 13 10 23 |
| | ○ | { 5 10 11 | 4 23 31 | | JUNE . | 17 6 59 | 16 22 6 |
| | JULY . | {20 4 33 | 20 12 10 | | JULY . | 13 19 43 | 13 11 47 |
| | AUG. . | 18 17 17 | 18 22 9 | | AUG. . | 15 8 27 | 15 3 19 |
| | SEPT.. | 17 6 1 | 17 7 30 | | SEPT.. | 13 21 11 | 13 20 6 |
| | OCT. . | 16 18 45 | 16 17 0 | | OCT. . | 13 9 55 | 13 13 12 |
| | NOV. . | 15 7 29 | 15 8 8 | | NOV. . | 11 22 39 | 12 5 39 |
| | DEC. . | {14 20 13 | 14 14 13 | | DEC. . | 11 11 23 | 11 20 44 |
| | ○ | {29 14 35 | 29 23 40 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|-----------|------------------------------------|------------------------------------|--|----------|------------------------------------|------------------------------------|
| A.D. 1529. C. March. d. h. m. 11 6 56 | JAN. . | d. h. m. 10 0 7 | d. h. m. 10 10 0 | A.D. 1532. G.F. March. d. h. m. 11 0 22 | JAN. . | d. h. m. 7 15 17 | d. h. m. 7 16 0 |
| | FEB. . | 8 12 51 | 8 21 21 | | FEB. . | 6 4 1 | 6 11 7 |
| | MAR. . | 10 1 35 | 10 7 1 | | MAR. . | 6 16 45 | 7 4 28 |
| | APRIL { | 8 14 19 | 8 15 25 | | APRIL . | 5 5 29 | 5 19 2 |
| | ○ { | 23 8 41 | 23 17 25 | | MAY . | 4 18 13 | 5 6 36 |
| | MAY . | 8 3 3 | 7 23 17 | | JUNE . | 3 6 57 | 3 15 38 |
| | JUNE . | 6 15 47 | 6 7 35 | | JULY . | 2 19 41 | 2 23 5 |
| | JULY . | 6 4 31 | 5 17 21 | | AUG. . { | 1 8 25 | 1 6 6 |
| | AUG. . | 4 17 15 | 4 5 27 | | { | 30 21 9 | 30 13 44 |
| | SEPT. . | 3 5 59 | 2 20 12 | | SEPT. . | 29 9 53 | 28 22 51 |
| | OCT. . { | 2 18 43 | 2 13 19 | | OCT. . | 28 22 37 | 28 10 13 |
| | ○ { | 17 13 5 | 17 8 31 | | NOV. . | 27 11 21 | 27 0 9 |
| | NOV. . { | 1 7 27 | 1 7 48 | | DEC. . | 27 0 5 | 26 16 28 |
| | { | 30 20 11 | { 1 2 15 | | | | |
| | DEC. . | 30 8 55 | { 30 19 23 | | | | |
| 1530. B. 11 12 45 | JAN. . | 28 21 40 | 29 10 14 | 1533. E. 11 6 11 | JAN. . | 25 12 50 | 25 10 29 |
| | FEB. . | 27 10 24 | 27 22 25 | | ○ { | 9 7 12 | 9 13 7 |
| | MAR. . | 28 23 8 | 29 8 10 | | FEB. . { | 24 1 34 | 24 4 57 |
| | ○ { | 12 17 30 | 12 17 46 | | MAR. . | 25 14 18 | 25 22 33 |
| | APRIL { | 27 11 52 | 27 16 5 | | APRIL . | 24 3 2 | 24 14 7 |
| | MAY . | 27 0 36 | 26 23 5 | | MAY . | 23 15 46 | 24 3 6 |
| | JUNE . | 25 13 20 | 25 6 12 | | JUNE . | 22 4 30 | 22 13 41 |
| | JULY . | 25 2 4 | 24 14 33 | | JULY . | 21 17 14 | 21 22 30 |
| | AUG. . | 23 14 48 | 23 1 10 | | ○ { | 5 11 36 | 5 1 43 |
| | SEPT. . | 22 3 32 | 21 14 43 | | { | 20 5 58 | 20 6 34 |
| | ○ { | 6 21 54 | 7 0 25 | | SEPT. . | 18 18 42 | 18 14 52 |
| | OCT. . { | 21 16 16 | 21 7 16 | | OCT. . | 18 7 26 | 18 0 9 |
| | NOV. . | 20 5 0 | 20 2 0 | | NOV. . | 16 20 10 | 16 10 53 |
| | DEC. . | 19 17 44 | 19 21 31 | | DEC. . | 16 8 54 | 15 23 33 |
| 1531. A. 11 13 34 | JAN. . | 18 6 29 | 18 16 9 | 1534. D. 11 12 0 | JAN. . { | 14 21 39 | 14 13 55 |
| | FEB. . | 16 19 13 | 17 8 28 | | ○ { | 29 16 1 | 30 3 37 |
| | MAR. . | 18 7 57 | 18 21 47 | | FEB. . | 13 10 23 | 13 5 44 |
| | ○ { | 2 2 19 | 1 20 55 | | MAR. . | 14 23 7 | 14 22 29 |
| | APRIL { | 16 20 41 | 17 8 11 | | APRIL . | 13 11 51 | 13 15 17 |
| | MAY . | 16 9 25 | 16 16 19 | | MAY . | 13 0 35 | 13 7 17 |
| | JUNE . | 14 22 9 | 14 23 10 | | JUNE . | 11 13 19 | 11 21 39 |
| | JULY . | 14 10 53 | 14 5 50 | | JULY . { | 11 2 3 | 11 10 3 |
| | AUG. . | 12 23 37 | 12 13 29 | | { | 25 20 25 | 25 8 6 |
| | SEPT. . { | 11 12 21 | 10 23 3 | | ○ | | |
| | ○ { | 26 6 43 | 26 12 24 | | AUG. . | 9 14 47 | 9 20 59 |
| | OCT. . | 11 1 5 | 10 11 23 | | SEPT. . | 8 3 31 | 8 6 43 |
| | NOV. . | 9 13 49 | 9 2 43 | | OCT. . | 7 16 15 | 7 16 23 |
| | DEC. . | 9 2 33 | 8 20 40 | | NOV. . | 6 4 59 | 6 2 22 |
| | | | | | DEC. . | 5 17 43 | 5 13 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1535. c. March. d. h. m. 11 17 49 | | d. h. m. | d. h. m. | A.D. 1538. F. March. d. h. m. 11 11 15 | | d. h. m. | d. h. m. |
| | JAN. . | 4 6 27 | 4 0 32 | | JAN. . | { ... 1 7 55 | |
| | FEB. . | 2 19 11 | 2 12 55 | | FEB. . | { 30 10 21 30 20 14 | |
| | MAR. . | 4 7 55 | 4 2 16 | | MAR. . | { 28 23 5 { 1 6 35 | |
| | APRIL . | 2 20 39 | 2 16 36 | | APRIL . | { 30 11 49 { 30 15 21 | |
| | MAY . | { 2 9 23 2 7 45 | | | ○ | { 29 0 33 28 23 11 | |
| | JUNE . | { 31 22 7 31 23 17 | | | MAY . | { 18 18 55 14 4 14 | |
| | JULY . | 30 10 51 | 30 14 32 | | JUNE . | { 28 13 17 28 6 59 | |
| | AUG. . | 29 23 35 | 30 4 54 | | JULY . | { 27 2 1 26 15 47 | |
| | SEPT. . | 28 12 19 | 28 18 8 | | AUG. . | { 26 14 45 26 2 34 | |
| | OCT. . | 27 1 3 | 27 6 17 | | SEPT. . | { 25 3 29 24 16 1 | |
| | NOV. . | 26 13 47 | 26 17 44 | | OCT. . | { 23 16 13 23 8 9 | |
| | DEC. . | 25 2 31 | 25 4 48 | | ○ | { 23 4 57 23 2 17 | |
| | | 24 15 15 | 24 15 41 | | NOV. . | { 6 23 19 6 17 55 | |
| 1538. B.A. 10 23 38 | JAN. . | 23 4 0 | 23 2 28 | | DEC. . | { 21 17 41 21 21 5 | |
| | FEB. . | 21 16 44 | 21 13 12 | | | { 21 6 25 21 15 12 | |
| | MAR. . | 22 5 28 | 22 0 12 | 1539. E. 11 17 4 | JAN. . | 19 19 9 | 20 7 18 |
| | APRIL . | 20 18 12 | 20 11 56 | | FEB. . | 18 7 53 | 18 20 47 |
| | MAY . | 20 6 56 | 20 0 54 | | MAR. . | 19 20 33 | 20 7 36 |
| | ○ | { 4 1 18 4 7 49 | | | APRIL . | 18 9 22 | 18 16 12 |
| | JUNE . | { 18 19 40 18 15 9 | | | MAY . | 17 22 6 | 17 23 26 |
| | JULY . | 18 8 21 | 18 6 32 | | JUNE . | 16 10 50 | 16 6 16 |
| | AUG. . | 16 21 8 | 16 22 20 | | JULY . | 15 23 34 | 15 13 50 |
| | SEPT. . | 15 9 52 | 15 13 53 | | AUG. . | 14 12 18 | 13 23 12 |
| | OCT. . | 14 22 36 | 15 4 38 | | SEPT. . | 13 1 2 | 12 11 13 |
| | NOV. . | { 13 11 20 13 18 20 | | | OCT. . | 12 13 46 | 12 2 23 |
| | ○ | { 28 5 42 27 19 20 | | | NOV. . | 11 2 30 | 10 20 20 |
| | DEC. . | 13 0 4 | 13 6 53 | | DEC. . | 10 15 14 | 10 15 45 |
| 1537. G. 11 5 27 | JAN. . | 11 12 48 | 11 13 20 | 1540. D.C. 10 22 58 | JAN. . | 9 3 53 | 9 11 8 |
| | FEB. . | 10 1 32 | 10 4 41 | | FEB. . | 7 16 42 | 8 4 33 |
| | MAR. . | 11 14 16 | 11 14 11 | | MAR. . | { 8 5 26 8 19 25 | |
| | APRIL . | 10 3 0 | 9 23 17 | | ○ | { 22 23 48 22 18 7 | |
| | MAY . | { 9 15 44 9 8 46 | | | APRIL . | { 6 18 10 7 7 8 | |
| | ○ | { 24 10 6 24 21 32 | | | MAY . | { 6 6 54 6 16 13 | |
| | JUNE . | 8 4 28 | 7 19 27 | | JUNE . | { 4 19 33 4 23 34 | |
| | JULY . | 7 17 12 | 7 8 1 | | JULY . | { 4 8 22 4 6 10 | |
| | AUG. . | 6 5 56 | 5 22 41 | | AUG. . | { 2 21 6 { 2 13 16 | |
| | SEPT. . | 4 18 40 | 4 15 5 | | | { 1 9 50 { 31 21 49 | |
| | OCT. . | 4 7 24 | 4 8 23 | | SEPT. ○ | { 16 4 12 16 9 31 | |
| | NOV. . | { 2 20 8 3 1 32 | | | | { 30 22 34 30 8 47 | |
| | ○ | { 17 14 30 17 3 33 | | | OCT. . | { 30 11 18 29 22 43 | |
| | DEC. . | { 2 8 52 2 17 35 | | | NOV. . | { 29 0 2 28 15 27 | |
| | | { 31 21 33 ... | | | DEC. . | { 28 12 46 28 10 14 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1541. B. | | d. h. m. | d. h. m. | A.D. 1544. F.E. | | d. h. m. | d. h. m. |
| March. d. h. m. | JAN. . | 27 1 31 | 27 5 35 | March. d. h. m. | JAN. . | 9 22 19 | 10 7 46 |
| 11 4 42 | FEB. . | 25 14 15 | 25 23 54 | 10 22 8 | FEB. . | 21 16 41 | 24 10 55 |
| | O | 12 8 37 | 12 6 9 | | MAR. . | 23 5 25 | 22 23 31 |
| | MAR. . | 27 2 59 | 27 15 51 | | MAR. . | 23 18 9 | 23 13 3 |
| | APRIL | 25 15 43 | 26 4 50 | | APRIL | 22 6 53 | 22 3 34 |
| | MAY . | 25 4 27 | 25 15 1 | | MAY . | 21 19 37 | 21 18 45 |
| | JUNE . | 23 17 11 | 23 23 9 | | JUNE . | 20 8 21 | 20 10 12 |
| | JULY . | 23 5 55 | 23 6 21 | | O | 5 2 48 | 4 21 45 |
| | AUG. . | 21 18 39 | 21 13 41 | | JULY . | 19 21 5 | 20 1 11 |
| | O | 5 13 1 | 5 12 38 | | AUG. . | 18 9 49 | 18 15 14 |
| | SEPT. . | 20 7 23 | 19 22 6 | | SEPT. . | 16 22 33 | 17 4 11 |
| | OCT. . | 19 20 7 | 19 8 25 | | OCT. . | 16 11 17 | 16 16 14 |
| | NOV. . | 18 8 51 | 17 21 6 | | NOV. . | 15 0 1 | 15 8 40 |
| | DEC. . | 17 21 35 | 17 12 14 | | DEC. . | 14 12 45 | 14 14 45 |
| | | | | | O | 29 7 7 | 29 7 52 |
| 1542. A. | JAN. . | 16 10 20 | 16 5 22 | 1545. D. | JAN. . | 18 1 30 | 18 1 33 |
| 11 10 31 | FEB. . | 14 23 4 | 14 23 34 | 11 3 57 | FEB. . | 11 11 14 | 11 12 6 |
| | O | 1 17 26 | 1 22 11 | | MAR. . | 13 2 58 | 12 22 39 |
| | MAR. . | 16 11 48 | 16 17 34 | | APRIL | 11 15 42 | 11 9 42 |
| | APRIL | 15 0 32 | 15 10 8 | | MAY . | 11 4 26 | 10 21 44 |
| | MAY . | 14 13 16 | 15 0 23 | | JUNE . | 9 17 10 | 9 11 11 |
| | JUNE . | 13 2 0 | 13 12 11 | | O | 24 11 32 | 24 15 3 |
| | JULY . | 12 14 44 | 12 21 53 | | JULY . | 9 5 54 | 9 2 0 |
| | AUG. . | 11 3 28 | 11 6 28 | | AUG. . | 7 18 38 | 7 17 46 |
| | SEPT. . | 9 16 12 | 9 14 40 | | SEPT. . | 6 7 22 | 6 9 45 |
| | OCT. . | 9 4 56 | 8 23 33 | | OCT. . | 5 20 6 | 6 1 15 |
| | NOV. . | 7 17 40 | 7 9 42 | | NOV. . | 4 8 50 | 4 15 47 |
| | DEC. . | 7 6 24 | 6 21 25 | | DEC. . | 3 21 34 | 4 5 7 |
| | | | | | O | 18 15 56 | 18 3 1 |
| 1543. G. | JAN. . | 5 19 8 | 5 10 47 | 1546. C. | JAN. . | 2 10 18 | 2 17 12 |
| 11 16 19 | FEB. . | 4 7 52 | 4 1 42 | 11 9 46 | FEB. . | 31 23 2 | ... |
| | MAR. . | 5 20 36 | 5 17 48 | | MAR. . | ... | 1 4 1 |
| | APRIL | 4 9 20 | 4 10 25 | | APRIL | 2 11 46 | 2 13 43 |
| | MAY . | 3 22 4 | 4 2 46 | | MAY . | 1 0 30 | 31 22 44 |
| | JUNE . | 2 10 43 | 2 17 59 | | JUNE . | 80 13 14 | 80 7 40 |
| | | 1 23 32 | 2 7 30 | | MAY . | 80 1 58 | 29 17 26 |
| | JULY O | 16 17 54 | 16 6 42 | | JUNE . | 28 14 42 | 28 4 52 |
| | | 31 12 16 | 31 19 18 | | JULY . | 28 3 26 | 27 18 27 |
| | AUG. . | 30 1 0 | 30 5 47 | | AUG. . | 26 16 10 | 26 10 8 |
| | SEPT. . | 28 13 44 | 28 15 40 | | SEPT. . | 25 4 54 | 25 3 19 |
| | OCT. . | 28 2 28 | 28 1 37 | | OCT. . | 24 17 33 | 24 20 55 |
| | NOV. . | 26 15 12 | 26 12 1 | | NOV. . | 23 6 22 | 23 13 52 |
| | DEC. . | 26 3 56 | 25 23 7 | | DEC. . | 22 19 6 | 23 5 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1547. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1550. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 21 7 51 | 21 18 40 | March. | JAN. . | 17 23 1 | 17 23 54 |
| <i>d. h. m.</i> | FEB. . | 19 20 35 | 20 5 54 | <i>d. h. m.</i> | FEB. . | 16 11 45 | 16 18 48 |
| 11 15 31 | MAR. . | 21 9 19 | 21 15 14 | 11 9 1 | MAR. . | 18 0 29 | 18 11 55 |
| | APRIL | 19 22 3 | 19 23 15 | | APRIL | 16 13 13 | 17 2 21 |
| | ○ { | 4 16 25 | 5 0 10 | | MAY . | 16 1 57 | 16 13 50 |
| | MAY . | 19 10 47 | 19 6 46 | | JUNE . | 14 14 41 | 14 22 55 |
| | JUNE . | 17 23 31 | 17 14 48 | | JULY . | 14 3 25 | 14 6 33 |
| | JULY . | 17 12 15 | 17 0 25 | | AUG. . | 12 16 9 | 12 13 48 |
| | AUG. . | 16 0 59 | 15 12 30 | | SEPT. . | 11 4 53 | 10 21 44 |
| | SEPT. . | 14 13 43 | 14 3 24 | | OCT. . | 10 17 37 | 10 7 10 |
| | OCT. . | 14 2 27 | 13 20 46 | | NOV. . | 9 6 21 | 8 18 42 |
| | ○ { | 23 20 49 | 23 17 9 | | DEC. . | 8 19 5 | 8 8 37 |
| | NOV. . | 12 15 11 | 12 15 35 | | | | |
| | DEC. . | 12 3 55 | 12 10 23 | | | | |
| 1548. | JAN. . | 10 16 40 | 11 3 43 | 1551. | JAN. . | 7 7 49 | 7 0 42 |
| A.G. | FEB. . | 9 5 24 | 9 18 34 | D. | FEB. . | 5 20 33 | 5 18 18 |
| 10 21 23 | MAR. . | 9 18 8 | 10 6 35 | 11 14 50 | ○ { | 20 14 55 | 20 21 40 |
| | APRIL | 8 6 52 | 8 16 4 | | MAR. . | 7 9 17 | 7 12 19 |
| | ○ { | 23 1 14 | 23 0 36 | | APRIL | 5 22 1 | 6 5 34 |
| | MAY . | 7 19 36 | 7 23 46 | | MAY . | 5 10 45 | 5 20 59 |
| | JUNE . | 6 8 20 | 6 6 33 | | JUNE . | 3 23 29 | 4 10 0 |
| | JULY . | 5 21 4 | 5 13 35 | | JULY . | 3 12 13 | 3 20 46 |
| | AUG. . | 4 9 43 | 3 21 57 | | ○ { | 2 0 57 | 2 5 56 |
| | SEPT. . | 2 22 32 | 2 8 37 | | AUG. ○ | 16 19 19 | 16 8 35 |
| | OCT. . | 2 11 16 | 1 22 20 | | ○ { | 31 13 41 | 31 14 25 |
| | ○ { | 17 5 33 | 17 8 48 | | SEPT. . | 30 2 25 | 29 23 8 |
| | ○ { | 1 0 0 | 31 15 2 | | OCT. . | 29 15 9 | 29 8 46 |
| | NOV. . | 30 12 44 | 30 9 55 | | NOV. . | 28 8 53 | 27 19 44 |
| | DEC. . | 30 1 28 | 30 5 31 | | DEC. . | 27 16 37 | 27 8 14 |
| 1549. | JAN. . | 23 14 12 | 29 0 7 | 1552. | JAN. . | 26 5 22 | 25 22 13 |
| F. | FEB. . | 27 2 56 | 27 16 20 | C.B. | ○ { | 9 23 44 | 10 12 3 |
| 11 3 12 | MAR. . | 23 15 40 | 29 5 31 | 10 20 39 | FEB. . | 24 18 6 | 24 13 32 |
| | ○ { | 12 10 2 | 12 4 14 | | MAR. . | 25 6 50 | 25 5 42 |
| | APRIL | 27 4 24 | 27 15 45 | | APRIL | 23 19 34 | 23 22 3 |
| | MAY . | 26 17 8 | 26 23 45 | | MAY . | 23 8 18 | 23 13 50 |
| | JUNE . | 25 5 52 | 25 6 36 | | JUNE . | 21 21 2 | 21 4 17 |
| | JULY . | 24 18 36 | 24 13 22 | | JULY . | 21 9 46 | 21 17 5 |
| | AUG. . | 23 7 20 | 22 21 10 | | ○ { | 5 4 8 | 4 15 20 |
| | SEPT. . | 21 20 4 | 21 6 57 | | AUG. . | 19 22 30 | 20 4 21 |
| | ○ { | 6 14 26 | 6 20 17 | | SEPT. . | 18 11 14 | 18 14 46 |
| | OCT. . | 21 8 48 | 20 19 25 | | OCT. . | 17 23 53 | 18 0 51 |
| | NOV. . | 19 21 32 | 19 10 50 | | NOV. . | 16 12 42 | 16 11 10 |
| | DEC. . | 19 10 16 | 19 4 42 | | DEC. . | 16 1 26 | 15 21 57 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1553. A. March. d. h. m. 11 2 27 | | d. h. m. | d. h. m. | A.D. 1556. B.D. March. d. h. m. 10 19 54 | | d. h. m. | d. h. m. |
| | JAN. . | 14 14 11 | 14 9 20 | | JAN. . | 12 5 21 | 12 16 34 |
| | FEB. . | 13 2 55 | 12 21 17 | | FEB. . | 10 18 5 | 11 4 48 |
| | MAR.. | 14 15 39 | 14 10 3 | | MAR.. | 11 6 49 | 11 14 55 |
| | APRIL | 13 4 23 | 12 23 46 | | APRIL | 9 19 33 | 9 23 19 |
| | MAY . | 12 17 7 | 12 14 26 | | MAY . | { 9 8 17 | 9 6 48 |
| | JUNE . | 11 5 51 | 11 5 44 | | ○ | { 24 2 39 | 24 10 54 |
| | JULY . | 10 18 35 | 10 21 3 | | JUNE . | 7 21 1 | 7 14 20 |
| | AUG. . | 9 7 19 | 9 11 48 | | JULY . | 7 9 45 | 6 22 56 |
| | SEPT. . | 7 20 3 | 8 1 34 | | AUG. . | 5 22 29 | 5 9 40 |
| | OCT. . | 7 8 47 | 7 14 21 | | SEPT. . | 4 11 13 | 3 23 12 |
| | NOV. . | 5 21 31 | 6 2 19 | | OCT. . | 3 23 57 | 3 15 30 |
| | DEC. . | 5 10 15 | 5 13 42 | | NOV. . | { 2 12 41 | 2 9 56 |
| | | | | | ○ | { 17 7 3 | 17 2 44 |
| 1554. G. 11 8 16 | JAN. . | 3 22 59 | 4 0 39 | 1557. C. 11 1 43 | JAN. . | 30 2 53 | 30 15 35 |
| | FEB. . | 2 11 43 | 2 11 11 | | FEB. . | 28 15 37 | { 1 4 58 |
| | MAR.. | 4 0 27 | 3 21 23 | | MAR.. | 30 4 21 | { 30 15 44 |
| | APRIL | 2 13 11 | 2 7 55 | | APRIL | 28 17 5 | 28 23 55 |
| | MAY . | { 2 1 55 | 1 19 7 | | MAY . | 28 5 49 | 28 6 56 |
| | ○ | { 31 14 39 | 31 7 37 | | JUNE . | 26 18 33 | 26 13 40 |
| | JUNE . | { 15 9 1 | 15 15 11 | | JULY . | 26 7 17 | 25 21 13 |
| | JULY . | { 30 3 23 | 29 21 41 | | AUG. . | 24 20 1 | 24 6 40 |
| | AUG. . | 23 4 51 | 23 5 15 | | SEPT. . | 23 8 45 | 22 18 54 |
| | SEPT. . | 26 17 35 | 26 21 19 | | OCT. . | 22 21 29 | 22 10 13 |
| | OCT. . | 26 6 19 | 26 12 41 | | NOV. . | 21 10 13 | 21 4 13 |
| | NOV. . | 24 19 3 | 25 2 52 | | DEC. . | 20 22 57 | 20 23 42 |
| | ○ | { 9 13 25 | 9 3 37 | | | | |
| | DEC. . | { 24 7 47 | 24 15 43 | | | | |
| 1555. F. 11 14 5 | JAN. . | 22 20 32 | 23 3 9 | 1558. B. 11 7 32 | JAN. . | 19 11 42 | 19 19 1 |
| | FEB. . | 21 9 16 | 21 13 16 | | FEB. . | 18 0 26 | 18 12 30 |
| | MAR.. | 22 22 0 | 22 22 21 | | MAR.. | 19 13 10 | 20 3 10 |
| | APRIL | 21 10 44 | 21 6 59 | | ○ | { 3 7 32 | 3 1 42 |
| | MAY . | 20 23 28 | 20 16 1 | | APRIL | { 18 1 54 | 18 14 44 |
| | ○ | { 4 17 50 | 5 4 37 | | MAY . | 17 14 33 | 17 23 42 |
| | JUNE . | { 19 12 12 | 19 2 21 | | JUNE . | 16 3 22 | 16 6 59 |
| | JULY . | 19 0 56 | 18 14 46 | | JULY . | 15 16 6 | 15 13 41 |
| | AUG. . | 17 13 40 | 17 5 29 | | AUG. . | 14 4 50 | 13 20 55 |
| | SEPT. . | 16 2 24 | 15 22 9 | | SEPT. . | { 12 17 34 | 12 5 42 |
| | OCT. . | 15 15 8 | 15 15 54 | | ○ | { 27 11 56 | 27 17 9 |
| | NOV. . | { 14 3 52 | 14 9 34 | | OCT. . | 12 6 13 | 11 16 53 |
| | ○ | { 23 22 14 | 23 12 19 | | NOV. . | 10 19 2 | 10 6 53 |
| | DEC. . | 13 16 36 | 14 2 2 | | DEC. . | 10 7 46 | 9 23 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1559. A. March. <i>d. h. m.</i> 11 13 20 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1562. D. March. <i>d. h. m.</i> 11 6 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 20 31 | 8 18 13 | | JAN. . | { 5 11 41 | 5 8 0 |
| | FEB. . | 7 9 15 | 7 13 19 | | ○ | 20 6 3 | 20 15 54 |
| | MAR. . | { 8 21 59 | 9 7 22 | | FEB. . | 4 0 25 | 3 19 29 |
| | ○ | { 23 16 21 | 23 14 14 | | MAR. . | 5 13 9 | 5 7 33 |
| | APRIL | 7 10 43 | 7 23 7 | | APRIL | 4 1 53 | 3 20 27 |
| | MAY . | 6 23 27 | 7 12 1 | | MAY . | 3 14 37 | 3 10 24 |
| | JUNE . | 5 12 11 | 5 22 14 | | JUNE . | 2 3 21 | 2 1 18 |
| | JULY . | 5 0 55 | 5 6 32 | | | { 1 16 5 | 1 16 41 |
| | AUG. . | 3 13 39 | 3 18 59 | | JULY ○ | { 16 10 27 | 16 5 13 |
| | SEPT. . | { 2 2 23 | 1 21 37 | | | { 31 4 49 | 31 7 54 |
| | ○ | { 16 20 45 | 16 19 45 | | AUG. . | 29 17 33 | 29 22 26 |
| | OCT. . | { 1 15 7 | 1 6 21 | | SEPT. . | 28 6 17 | 28 11 59 |
| | | { 31 3 51 | 30 16 55 | | OCT. . | 27 19 1 | 28 0 37 |
| | NOV. . | 29 16 35 | 29 5 39 | | NOV. . | 26 7 45 | 26 12 29 |
| | DEC. . | 29 5 19 | 28 20 36 | | DEC. . | 25 20 29 | 25 23 42 |
| 1560. G.F. | JAN. . | 27 18 3 | 27 13 22 | 1563. C. | ○ | { 9 14 51 | 9 15 48 |
| | FEB. . | 26 6 47 | 26 7 5 | | JAN. . | { 24 9 13 | 24 10 22 |
| | ○ | { 12 1 9 | 12 6 30 | | FEB. . | 22 21 57 | 22 20 35 |
| 10 19 9 | MAR. . | { 26 19 31 | 27 0 40 | 11 12 36 | MAR. . | 24 10 41 | 24 6 37 |
| | APRIL | 25 8 15 | 25 16 58 | | APRIL | 22 23 25 | 22 17 5 |
| | MAY . | 24 20 59 | 25 7 12 | | MAY . | 22 12 9 | 22 4 38 |
| | JUNE . | 23 9 43 | 23 19 8 | | JUNE . | 21 0 53 | 20 17 45 |
| | JULY . | 22 22 27 | 23 5 10 | | ○ | { 5 19 15 | 5 22 27 |
| | AUG. . | 21 11 11 | 21 14 4 | | JULY . | { 20 13 37 | 20 8 31 |
| | ○ | { 5 5 33 | 4 19 50 | | AUG. . | 19 2 21 | 19 0 32 |
| | SEPT. . | { 19 23 55 | 19 22 47 | | SEPT. . | 17 15 5 | 17 16 58 |
| | OCT. . | 19 12 39 | 19 8 4 | | OCT. . | 17 3 49 | 17 9 3 |
| | NOV. . | 18 1 23 | 17 18 28 | | NOV. . | 15 16 33 | 16 0 8 |
| | DEC. . | 17 14 7 | 17 6 11 | | DEC. . | { 15 5 17 | 15 13 51 |
| | | | | | ○ | { 29 23 39 | 29 16 14 |
| 1561. E. | JAN. . | 16 2 51 | 15 19 18 | 1564. B.A. | JAN. . | 13 18 2 | 14 2 2 |
| 11 0 58 | FEB. . | 14 15 35 | 14 9 43 | | FEB. . | 12 6 43 | 12 12 42 |
| | MAR. . | 16 4 20 | 16 1 15 | 10 18 23 | MAR. . | 12 19 30 | 12 22 2 |
| | APRIL | 14 17 4 | 14 17 21 | | APRIL | 11 8 14 | 11 6 35 |
| | MAY . | 14 5 43 | 14 9 22 | | MAY . | 10 20 53 | 10 15 6 |
| | JUNE . | 12 18 32 | 13 0 32 | | JUNE . | 9 9 42 | 9 0 29 |
| | JULY . | 12 7 16 | 12 14 18 | | JULY . | 8 22 26 | 8 11 41 |
| | AUG. . | 10 20 0 | 11 2 32 | | AUG. . | 7 11 10 | 7 1 15 |
| | SEPT. . | 9 8 44 | 9 13 33 | | SEPT. . | 5 23 54 | 5 17 7 |
| | OCT. . | 8 21 23 | 9 0 18 | | OCT. . | 5 12 33 | 5 10 40 |
| | NOV. . | 7 10 12 | 7 10 19 | | NOV. . | 4 1 22 | 4 4 46 |
| | DEC. . | 6 22 56 | 6 20 58 | | DEC. . | 3 14 6 | 3 22 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1565. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1568. D.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 11 0 13 | JAN. . | { 2 2 50 31 15 34 | 2 13 50 ... | March. <i>d. h. m.</i> 10 17 40 | JAN. . | 29 6 44 | 29 7 40 |
| | FEB. . | ... | 1 3 14 | | FEB. . | 27 19 28 | 28 2 17 |
| | MAR. . | { 2 4 18 31 17 2 | 2 14 16 31 23 17 | | MAR. . | 28 8 12 | 28 19 11 |
| | APRIL | 30 5 46 | 30 6 58 | | APRIL | 26 20 56 | 27 9 28 |
| | ○ | { 15 0 8 29 18 30 | 15 6 49 29 14 11 | | MAY . | 26 9 40 | 26 20 58 |
| | MAY . | 28 7 14 | 27 22 1 | | JUNE . | 24 22 24 | 25 6 10 |
| | JUNE . | 27 19 58 | 27 7 33 | | JULY . | 24 11 8 | 24 14 2 |
| | JULY . | 26 8 42 | 25 19 34 | | AUG. . | 22 23 52 | 22 21 37 |
| | AUG. . | 24 21 26 | 24 10 43 | | SEPT. . | 21 12 36 | 21 6 52 |
| | SEPT. . | 24 10 10 | 24 4 20 | | OCT. . | 21 1 20 | 20 15 37 |
| | OCT. . | { 8 4 32 22 22 54 | 8 1 54 22 23 27 | | NOV. . | 19 14 4 | 19 3 17 |
| | NOV. . | 22 11 38 | 22 18 30 | 1569. B. | DEC. . | 19 2 48 | 18 17 6 |
| | DEC. . | 21 0 23 | 21 11 56 | | JAN. . | 17 15 33 | 17 8 53 |
| 1566. F. | JAN. . | 19 13 7 | 20 2 43 | | FEB. . | 16 4 17 | 16 2 1 |
| 11 6 2 | MAR. . | 21 1 51 | 21 14 34 | 10 23 29 | ○ | { 2 22 39 17 17 1 | 3 6 6 17 19 35 |
| | APRIL | 19 14 35 | 19 23 50 | | APRIL | 16 5 45 | 16 12 28 |
| | ○ | { 4 8 57 19 3 19 | 4 7 19 19 7 19 | | MAY . | 15 18 29 | 16 3 44 |
| | MAY . | 17 16 3 | 17 13 59 | | JUNE . | 14 7 13 | 14 16 52 |
| | JUNE . | 17 4 47 | 16 20 59 | | JULY . | 13 19 57 | 14 3 54 |
| | AUG. . | 15 17 81 | 15 5 25 | | AUG. . | { 12 8 41 27 3 3 | 12 13 23 26 15 36 |
| | SEPT. . | 14 6 15 | 13 16 14 | | ○ | 10 21 25 | 10 22 23 |
| | OCT. . | { 13 18 59 23 18 21 | 13 6 15 23 17 19 | | SEPT. . | 10 10 9 | 10 7 32 |
| | NOV. . | 12 7 43 | 11 22 54 | | NOV. . | 8 22 53 | 8 17 30 |
| | DEC. . | 11 20 27 | 11 17 51 | | DEC. . | 8 11 37 | 8 4 35 |
| 1567. E. | JAN. . | 10 9 12 | 10 13 23 | 1570. A. | JAN. . | 7 0 22 | 6 16 55 |
| 11 11 51 | FEB. . | 8 21 56 | 9 7 59 | | FEB. . | { 5 13 6 20 7 28 | 5 6 29 20 20 24 |
| | MAR. . | 10 10 40 | 11 0 4 | 11 5 18 | ○ | 7 1 50 | 6 21 12 |
| | APRIL | { 8 23 24 23 17 46 | 9 13 6 23 11 27 | | MAR. . | 5 14 34 | 5 12 47 |
| | ○ | 8 12 8 | 8 23 13 | | APRIL | 5 3 13 | 5 4 45 |
| | MAY . | 7 0 52 | 7 7 10 | | MAY . | 3 16 2 | 3 20 22 |
| | JUNE . | 6 13 36 | 6 14 5 | | JUNE . | 3 4 46 | 3 10 57 |
| | AUG. . | 5 2 20 | 4 20 59 | | ○ | { 1 17 30 16 11 52 | 2 0 6 15 22 41 |
| | SEPT. . | 3 15 4 | 3 5 1 | | SEPT. . | 81 6 14 | 81 11 57 |
| | OCT. . | { 3 3 48 17 22 10 | 2 15 1 18 4 16 | | SEPT. . | 29 18 58 | 29 22 51 |
| | NOV. . | 1 16 32 | { 1 3 39 30 19 4 | | OCT. . | 29 7 42 | 29 9 26 |
| | DEC. . | { 1 5 16 30 18 0 | 30 12 47 | | NOV. . | 27 20 26 | 27 20 4 |
| | | | | | DEC. . | 27 9 10 | 27 6 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1571. G. March. d. h. m. 11 11 6 | | d. h. m. | d. h. m. | A.D. 1574. C. March. d. h. m. 11 4 33 | | d. h. m. | d. h. m. |
| | JAN. . | 25 21 54 | 25 18 1 | | JAN. . | 22 13 4 | 23 1 5 |
| | FEB. . | 24 10 38 | 24 5 31 | | FEB. . | 21 1 48 | 21 13 13 |
| | MAR. . | 25 23 22 | 25 17 41 | | MAR. . | 22 14 32 | 22 23 3 |
| | APRIL . | 24 12 6 | 24 6 48 | | APRIL . | 21 3 16 | 21 7 9 |
| | MAY . | 24 0 50 | 23 21 2 | | MAY . | 20 16 0 | 20 14 20 |
| | JUNE . | 22 13 34 | 22 12 9 | | O | { 4 10 22 | 4 17 30 |
| | JULY . | 22 2 18 | 22 3 37 | | JUNE . | { 19 4 44 | 18 21 37 |
| | O | { 5 20 40 | 5 12 39 | | JULY . | 18 17 28 | 18 6 7 |
| | AUG. . | { 20 15 2 | 20 13 45 | | AUG. . | 17 6 12 | 16 16 51 |
| | SEPT. . | 19 3 46 | 19 9 6 | | SEPT. . | 15 18 56 | 15 6 29 |
| | OCT. . | 18 16 30 | 18 22 29 | | OCT. . | 15 7 40 | 14 23 2 |
| | NOV. . | 17 5 14 | 17 10 57 | | NOV. . | { 13 20 24 | 13 17 42 |
| | DEC. . | 16 17 58 | 16 22 38 | | O | { 28 14 46 | 28 11 37 |
| | | | | | DEC. . | 13 9 8 | 13 13 7 |
| 1572. F.E. 10 16 55 | JAN. . | 15 6 43 | 15 9 35 | 1575. B. 11 10 22 | JAN. . | 11 21 53 | 12 7 34 |
| | FEB. . | 13 19 27 | 13 19 50 | | FEB. . | 10 10 37 | 10 23 45 |
| | MAR. . | 14 8 11 | 14 5 40 | | MAR. . | 11 23 21 | 12 13 0 |
| | APRIL . | 12 20 55 | 12 15 34 | | APRIL . | 10 12 5 | 10 23 22 |
| | MAY . | 12 9 39 | 12 2 13 | | MAY . | 10 0 49 | 10 7 32 |
| | JUNE . | { 10 22 23 | 10 14 20 | | JUNE . | 8 13 33 | 8 14 25 |
| | O | { 25 16 45 | 25 22 32 | | JULY . | 8 2 17 | 7 21 5 |
| | JULY . | 10 11 7 | 10 4 14 | | AUG. . | 6 15 1 | 6 4 43 |
| | AUG. . | 8 23 51 | 8 19 45 | | SEPT. . | 5 3 45 | 4 14 18 |
| | SEPT. . | 7 12 35 | 7 12 15 | | OCT. . | 4 16 29 | 4 2 41 |
| | OCT. . | 7 1 19 | 7 4 54 | | NOV. . | 3 5 13 | 2 18 7 |
| | NOV. . | 5 14 3 | 5 20 50 | | DEC. . | 2 17 57 | 2 12 12 |
| | DEC. . | { 5 2 48 | 5 11 30 | | | | |
| | O | { 19 21 10 | 19 11 59 | | | | |
| 1573. D. 10 22 44 | JAN. . | 3 15 32 | 4 0 32 | 1576. A.G. 10 16 11 | JAN. . | { 1 6 41 | 1 7 39 |
| | FEB. . | 2 4 16 | 2 11 53 | | | { 30 19 25 | 31 2 51 |
| | MAR. . | 3 17 0 | 3 21 42 | | FEB. . | 29 8 9 | 29 20 13 |
| | APRIL . | 2 5 44 | 2 6 22 | | MAR. . | 29 20 54 | 30 10 44 |
| | MAY . | { 1 18 28 | 1 14 35 | | O | { 13 15 16 | 13 9 11 |
| | | { 31 7 12 | 30 23 13 | | APRIL . | { 23 9 33 | 23 22 11 |
| | O | { 15 1 34 | 15 11 37 | | MAY . | 27 22 22 | 28 7 5 |
| | JUNE . | { 29 19 56 | 29 9 17 | | JUNE . | 26 11 6 | 26 14 26 |
| | JULY . | 29 8 40 | 28 21 34 | | JULY . | 25 23 50 | 26 21 14 |
| | AUG. . | 27 21 24 | 27 12 24 | | AUG. . | 24 12 34 | 24 4 43 |
| | SEPT. . | 26 10 8 | 26 5 23 | | SEPT. . | 23 1 18 | 22 18 45 |
| | OCT. . | 25 22 52 | 25 23 34 | | O | { 7 19 40 | 8 0 53 |
| | NOV. . | 24 11 36 | 24 17 41 | | OCT. . | { 22 14 2 | 22 1 7 |
| | O | { 9 5 53 | 8 21 6 | | NOV. . | 21 2 46 | 20 15 11 |
| | DEC. . | { 24 0 20 | 24 10 23 | | DEC. . | 20 15 30 | 20 7 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1577. F. March. d. h. m. 10 21 59 | | d. h. m. | d. h. m. | A.D. 1580. C.B. | | d. h. m. | d. h. m. |
| | JAN. . | 19 4 14 | 19 2 7 | | JAN. . | { 16 19 24 | 16 16 51 |
| | FEB. . | 17 16 58 | 17 20 54 | | ○ | { 31 13 46 | 31 23 52 |
| | MAR. . | 19 5 42 | 19 14 39 | March. d. h. m. 10 15 26 | FEB. . | 15 8 8 | 15 3 56 |
| | ○ | { 3 0 4 | 2 22 11 | | MAR. . | 15 20 52 | 15 15 27 |
| | APRIL | { 17 18 26 | 18 6 13 | | APRIL | 14 9 36 | 14 3 45 |
| | MAY . | 17 7 10 | 17 19 4 | | MAY . | 13 22 20 | 13 17 10 |
| | JUNE . | 15 19 54 | 16 5 23 | | JUNE . | 12 11 4 | 12 7 45 |
| | JULY . | 15 8 38 | 15 13 54 | | JULY . | { 11 23 48 | 11 23 8 |
| | AUG. . | 13 21 22 | 13 21 38 | | ○ | { 26 18 10 | 26 12 45 |
| | SEPT. . | { 12 10 6 | 12 5 39 | | AUG. . | 10 12 32 | 10 14 39 |
| | ○ | { 27 4 23 | 27 3 0 | | SEPT. . | 9 1 16 | 9 5 42 |
| | OCT. . | 11 22 50 | 11 14 44 | | OCT. . | 8 14 0 | 8 19 58 |
| | NOV. . | 10 11 34 | 10 1 30 | | NOV. . | 7 2 44 | 7 9 4 |
| | DEC. . | 10 0 18 | 9 14 15 | | DEC. . | 6 15 28 | 6 21 19 |
| 1578. E. 11 3 43 | JAN. . | 8 13 3 | 8 4 58 | 1581. A. | JAN. . | { 5 4 13 | 5 8 40 |
| | FEB. . | 7 1 47 | 6 21 17 | | ○ | { 19 22 35 | 19 23 40 |
| | MAR. . | { 8 14 31 | 8 14 30 | 10 21 15 | FEB. . | 3 16 57 | 3 19 8 |
| | ○ | { 23 8 53 | 23 14 42 | | MAR. . | 5 5 41 | 5 4 58 |
| | APRIL | 7 3 15 | 7 7 39 | | APRIL | 3 18 25 | 3 14 29 |
| | MAY . | 6 15 59 | 6 23 43 | | MAY . | 3 7 9 | 3 0 24 |
| | JUNE . | 5 4 43 | 5 13 58 | | JUNE . | 1 19 53 | 1 11 30 |
| | JULY . | 4 17 27 | 5 2 6 | | | | |
| | AUG. . | 3 6 11 | 3 12 30 | | JULY ○ | { 1 8 37 | 1 0 22 |
| | SEPT. . | { 1 18 55 | 1 21 51 | | | { 16 2 59 | 16 5 54 |
| | ○ | { 16 13 17 | 16 3 1 | | | { 30 21 21 | 30 15 8 |
| | OCT. . | { 1 7 39 | 1 7 3 | | AUG. . | 29 10 5 | 29 7 23 |
| | | { 30 20 23 | 30 16 45 | | SEPT. . | 27 22 49 | 28 0 18 |
| | NOV. . | 29 9 7 | 29 3 19 | | OCT. . | 27 11 33 | 27 16 59 |
| | DEC. . | 28 21 51 | 28 15 0 | | NOV. . | 26 0 17 | 26 8 34 |
| 1579. D. 11 9 37 | JAN. . | 27 10 35 | 27 3 46 | 1582. G. | DEC. . | 25 18 1 | 25 22 35 |
| | FEB. . | 25 23 19 | 25 17 39 | | ○ | { 9 7 23 | 9 0 26 |
| | MAR. . | 27 12 3 | 27 8 32 | | JAN. . | { 24 1 45 | 24 10 46 |
| | APRIL | 26 0 47 | 26 0 9 | 11 3 4 | FEB. . | 22 14 29 | 22 21 14 |
| | MAY . | 25 13 31 | 25 15 53 | | MAR. . | 24 3 13 | 24 6 12 |
| | JUNE . | 24 2 15 | 24 7 4 | | APRIL | 22 15 57 | 22 14 20 |
| | JULY . | 23 14 59 | 23 21 5 | | MAY . | 22 4 41 | 21 22 25 |
| | AUG. . | 22 3 43 | 22 9 48 | | JUNE . | 20 17 25 | 20 7 32 |
| | SEPT. . | 20 16 27 | 20 21 25 | | JULY . | 20 6 9 | 19 18 34 |
| | OCT. . | 20 5 11 | 20 8 23 | | AUG. . | 18 18 53 | 18 8 8 |
| | NOV. . | 18 17 55 | 18 19 8 | | SEPT. . | 17 7 37 | 17 0 14 |
| | DEC. . | 18 6 39 | 18 5 56 | | OCT. . | 16 20 21 | 16 18 8 |
| | | | | | NOV. . | 15 9 5 | 15 12 41 |
| | | | | | DEC. . | 14 21 49 | 15 6 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1583. F. March. <i>d. h. m.</i> 11 8 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1586. H. March. <i>d. h. m.</i> 11 2 19 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 10 34 | 13 22 19 | | JAN. . | 10 1 44 | 9 20 51 |
| | FEB. . | 11 23 18 | 12 11 40 | | FEB. . | 8 14 28 | 8 15 24 |
| | MAR. . | 13 12 2 | 13 22 29 | | MAR. . | 10 3 12 | 10 9 39 |
| | APRIL | 12 0 46 | 12 7 13 | | APRIL | 8 15 56 | 9 2 17 |
| | MAY . | { 11 13 30 | 11 14 35 | | MAY . | 8 4 40 | 8 16 2 |
| | ○ | { 26 7 52 | 26 13 23 | | JUNE . | 6 17 24 | 7 4 2 |
| | JUNE . | 10 2 14 | 9 21 35 | | JULY . | 6 6 8 | 6 13 26 |
| | JULY . | 9 14 58 | 9 5 18 | | AUG. . | 4 18 52 | 4 21 31 |
| | AUG. . | 8 3 42 | 7 14 47 | | SEPT. . | 3 7 36 | 3 5 32 |
| | SEPT. . | 6 16 26 | 6 2 58 | | OCT. . | 2 20 20 | 2 14 11 |
| | OCT. . | 6 5 10 | 5 18 12 | | NOV. . | { 1 9 4 | 1 0 11 |
| | NOV. . | { 4 17 54 | 4 12 3 | | DEC. . | { 30 21 48 | 30 11 58 |
| | ○ | { 19 12 16 | 19 10 44 | | | 30 10 32 | 30 1 38 |
| | DEC. . | 4 6 38 | 4 7 24 | | | | |
| 1584. E.D. 10 14 41 | JAN. . | 2 19 23 | 3 2 36 | 1587. A. 11 8 8 | JAN. . | 28 23 16 | 28 17 1 |
| | FEB. . | 1 8 7 | 1 20 3 | | FEB. . | 27 12 0 | 27 9 36 |
| | MAR. . | { 1 20 51 | 2 10 45 | | ○ | { 14 6 22 | 14 14 23 |
| | APRIL | { 31 9 35 | 31 22 25 | | MAR. . | { 29 0 44 | 29 2 40 |
| | ○ | 29 22 19 | 30 7 29 | | APRIL | 27 13 23 | 27 19 14 |
| | MAY . | { 14 16 41 | 14 13 58 | | MAY . | 27 2 12 | 27 10 25 |
| | JUNE . | { 29 11 3 | 29 14 49 | | JUNE . | 25 14 56 | 25 23 40 |
| | JULY . | 27 23 47 | 27 21 26 | | JULY . | 25 3 40 | 25 11 2 |
| | AUG. . | 27 12 31 | 27 4 29 | | AUG. . | 23 16 24 | 23 21 3 |
| | SEPT. . | 26 1 15 | 25 13 1 | | ○ | { 7 10 46 | 6 22 46 |
| | OCT. . | 24 18 59 | 24 0 1 | | SEPT. . | { 22 5 8 | 22 6 28 |
| | NOV. . | { 7 21 5 | 8 1 55 | | OCT. . | 21 17 52 | 21 16 5 |
| | DEC. . | { 22 15 27 | 22 6 55 | | NOV. . | 20 6 36 | 20 2 19 |
| | | 22 4 11 | 22 1 50 | | DEC. . | 19 19 20 | 19 13 27 |
| 1585. C. 10 20 30 | JAN. . | 20 16 55 | 20 21 20 | 1588. G.F. 10 13 57 | JAN. . | 18 8 5 | 18 1 34 |
| | FEB. . | 19 5 39 | 19 15 42 | | FEB. . | 16 20 49 | 16 14 39 |
| | MAR. . | 20 18 23 | 21 7 37 | | ○ | { 2 15 11 | 3 4 32 |
| | APRIL | 19 7 7 | 19 20 30 | | MAR. . | { 17 9 33 | 17 4 45 |
| | ○ | { 4 1 29 | 3 18 36 | | APRIL | 15 22 17 | 15 19 46 |
| | MAY . | { 13 19 51 | 19 6 32 | | MAY . | 15 11 1 | 15 11 19 |
| | JUNE . | 17 8 35 | 17 14 33 | | JUNE . | 13 23 45 | 14 2 49 |
| | JULY . | 16 21 19 | 16 21 33 | | JULY . | 13 12 29 | 13 17 34 |
| | AUG. . | 15 10 3 | 15 4 42 | | AUG. . | { 12 1 13 | 12 7 10 |
| | SEPT. . | 13 22 47 | 13 12 59 | | ○ | { 26 19 35 | 26 6 10 |
| | OCT. . | { 13 11 31 | 12 23 13 | | SEPT. . | 10 13 57 | 10 19 33 |
| | ○ | { 23 5 53 | 23 12 21 | | OCT. . | 10 2 41 | 10 7 4 |
| | NOV. . | 12 0 15 | 11 11 59 | | NOV. . | 8 15 25 | 8 13 7 |
| | DEC. . | 11 12 59 | 11 8 21 | | DEC. . | 8 4 9 | 8 5 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1589. E. March. <i>d. h. m.</i> 10 19 45 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1592. B.A. March. <i>d. h. m.</i> 10 13 12 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 6 16 54 | 6 15 51 | | JAN. . | 4 8 4 | 4 18 51 |
| | FEB. . | 5 5 38 | 5 2 42 | | FEB. . | 2 20 48 | 3 9 31 |
| | MAR. . | 6 18 22 | 6 13 41 | | MAR. . | 3 9 32 | 3 21 30 |
| | APRIL | 5 7 6 | 5 1 14 | | APRIL | 1 22 16 | 2 7 4 |
| | MAY . | 4 19 50 | 4 13 48 | | MAY . | { 1 11 0 30 23 44 | { 1 14 53 30 21 48 |
| | JUNE . | 3 8 34 | 3 3 37 | | ○ | { 14 18 6 | { 15 0 4 |
| | JULY . | 2 21 18 | 2 18 37 | | JUNE . | { 29 12 28 | { 29 4 57 |
| | AUG. ○ | { 1 10 2 16 4 24 30 22 46 | { 1 10 14 15 20 20 31 1 49 | | JULY . | 29 1 12 | 28 13 24 |
| | SEPT. . | 29 11 30 | 29 16 46 | | AUG. . | 27 18 56 | 27 0 12 |
| | OCT. . | 29 0 14 | 29 6 44 | | SEPT. . | 26 2 40 | 25 13 58 |
| | NOV. . | 27 12 58 | 27 19 41 | | OCT. . | 25 15 24 | 25 6 42 |
| | DEC. . | 27 1 42 | 27 7 32 | | NOV. . | 24 4 8 | 24 1 35 |
| 1590. D. 11 1 34 | JAN. . | 25 14 27 | 25 18 24 | 1593. G. 10 19 1 | ○ | { 8 22 30 | { 8 20 35 |
| | FEB. . | 24 3 11 | 24 4 22 | | DEC. . | { 23 16 52 | { 23 21 6 |
| | MAR. . | 25 15 55 | 25 13 43 | | JAN. . | 22 5 36 | 22 15 37 |
| | APRIL | 24 4 39 | 23 23 6 | | FEB. . | 20 18 20 | 21 7 45 |
| | MAY . | 23 17 23 | 23 9 17 | | MAR. . | 22 7 4 | 22 20 51 |
| | JUNE . | 22 6 7 | 21 21 3 | | APRIL | 20 19 48 | 21 7 2 |
| | ○ | { 7 0 29 | { 7 5 54 | | MAY . | 20 8 32 | 20 15 3 |
| | JULY . | { 21 13 51 | { 21 10 51 | | JUNE . | 18 21 16 | 18 21 52 |
| | AUG. . | 20 7 35 | 20 2 31 | | JULY . | 18 10 0 | 18 4 34 |
| | SEPT. . | 18 20 19 | 18 19 25 | | AUG. . | 16 22 44 | 16 12 19 |
| | OCT. . | 18 9 3 | 18 12 35 | | SEPT. . | 15 11 28 | 14 22 4 |
| | NOV. . | 16 21 47 | 17 5 4 | | OCT. . | 15 0 12 | 14 10 36 |
| | DEC. . | { 16 10 31 31 4 53 | { 16 20 6 30 20 20 | | NOV. . | 13 12 56 | 13 2 9 |
| 1591. C. 11 7 23 | ○ | | | 1594. F. 11 0 50 | DEC. . | 13 1 40 | 12 20 12 |
| | JAN. . | 14 23 15 | 15 9 16 | | JAN. . | 11 14 25 | 11 15 35 |
| | FEB. . | 13 11 59 | 13 20 29 | | FEB. . | 10 3 9 | 10 10 36 |
| | MAR. . | 15 0 43 | 15 6 0 | | MAR. . | 11 15 53 | 12 3 47 |
| | APRIL | 13 13 27 | 13 14 15 | | APRIL | { 10 4 37 24 22 59 | { 10 18 8 24 16 33 |
| | MAY . | 13 2 11 | 12 22 4 | | ○ | | |
| | JUNE . | { 11 14 55 | { 11 6 23 | | MAY . | 9 17 21 | 10 5 29 |
| | ○ | { 26 9 17 | { 26 18 34 | | JUNE . | 8 6 5 | 8 14 23 |
| | JULY . | 11 3 39 | 10 16 15 | | JULY . | 7 18 49 | 7 21 49 |
| | AUG. . | 9 16 23 | 9 4 30 | | AUG. . | 6 7 33 | 6 4 53 |
| | SEPT. . | 8 5 7 | 7 19 27 | | SEPT. . | 4 20 17 | 4 12 37 |
| | OCT. . | 7 17 51 | 7 12 43 | | OCT. . | { 4 9 1 | { 3 21 56 |
| | NOV. . | 6 6 35 | 6 7 19 | | ○ | { 19 3 23 | { 19 8 44 |
| | DEC. . | { 5 19 19 | { 6 1 47 | | NOV. . | 2 21 45 | 2 9 29 |
| | ○ | { 20 13 41 | { 20 5 51 | | DEC. . | { 2 10 29 31 23 13 | { 1 23 34 31 16 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1595. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1598. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | 30 11 58 | 30 9 58 | A. | JAN. . | 27 8 8 | 27 1 39 |
| March. | FEB. . | ... | ... | ○ | ○ | { 10 21 30 | 11 7 42 |
| <i>d. h. m.</i> | MAR. . | { 1 0 42 | 1 4 22 | March. | FEB. . | { 25 15 52 | 25 12 19 |
| 11 6 38 | ○ | { 80 13 26 | 30 22 9 | <i>d. h. m.</i> | MAR. . | 27 4 36 | 26 23 14 |
| | APRIL | { 14 7 48 | 14 6 2 | 11 0 5 | APRIL | 25 17 20 | 25 10 58 |
| | MAY . | { 29 2 10 | 29 13 12 | | MAY . | 25 6 4 | 24 23 54 |
| | JUNE . | 28 14 54 | 29 2 3 | | JUNE . | 23 18 43 | 23 14 14 |
| | JULY . | 27 3 38 | 27 12 30 | | JULY . | 23 7 32 | 23 5 39 |
| | AUG. . | 26 16 22 | 26 21 19 | ○ | ○ | { 7 1 54 | 6 20 23 |
| | SEPT. . | 25 5 6 | 25 5 26 | AUG. . | AUG. . | { 21 20 16 | 21 21 31 |
| | ○ | { 8 12 12 | 8 10 21 | SEPT. . | SEPT. . | 20 9 0 | 20 13 7 |
| | OCT. . | { 23 6 31 | 22 23 15 | OCT. . | OCT. . | 19 21 44 | 20 3 55 |
| | NOV. . | 21 19 18 | 21 10 12 | NOV. . | NOV. . | 18 10 28 | 18 17 38 |
| | DEC. . | 21 8 2 | 20 22 54 | DEC. . | DEC. . | 17 23 12 | 18 6 10 |
| 1596. | JAN. . | 19 20 46 | 19 13 18 | 1599. | JAN. . | { 16 11 56 | 16 17 32 |
| D.C. | FEB. . | 18 9 30 | 18 5 6 | G. | ○ | { 31 6 18 | 31 7 27 |
| 10 12 27 | MAR. . | 18 22 14 | 18 21 47 | 11 5 51 | FEB. . | 15 0 40 | 15 3 43 |
| | ○ | { 2 16 36 | 2 22 43 | | MAR. . | 16 13 24 | 16 13 10 |
| | APRIL | { 17 10 58 | 17 14 29 | | APRIL | 15 2 8 | 14 22 12 |
| | MAY . | 16 23 42 | 17 6 21 | | MAY . | 14 14 52 | 14 7 33 |
| | JUNE . | 15 12 26 | 15 20 33 | | JUNE . | 13 3 36 | 12 18 21 |
| | JULY . | 15 1 10 | 15 9 39 | | JULY . | { 12 16 20 | 12 7 2 |
| | AUG. . | 13 13 54 | 13 19 52 | | ○ | { 27 10 42 | 27 13 24 |
| | SEPT. . | { 12 2 38 | 12 5 46 | | AUG. . | 11 5 4 | 10 21 50 |
| | ○ | { 26 21 0 | 26 10 23 | | SEPT. . | 9 17 43 | 9 14 23 |
| | OCT. . | 11 15 22 | 11 15 26 | | OCT. . | 9 6 32 | 9 7 47 |
| | NOV. . | 10 4 6 | 10 1 29 | | NOV. . | 7 19 16 | 8 0 53 |
| | DEC. . | 9 16 50 | 9 12 14 | | DEC. . | 7 8 0 | 7 17 3 |
| 1597. | JAN. . | 8 5 33 | 7 23 48 | 1600. | JAN. . | { 5 20 45 | 6 7 16 |
| B. | FEB. . | 6 13 19 | 6 12 10 | E.E. | ○ | { 20 15 7 | 20 8 37 |
| 10 18 16 | MAR. . | 8 7 3 | 8 1 29 | 10 11 43 | FEB. . | 4 9 29 | 4 19 27 |
| | APRIL | 6 19 47 | 6 15 46 | | MAR. . | 4 22 13 | 5 5 33 |
| | MAY . | 6 8 31 | 6 6 51 | | APRIL | 3 10 57 | 3 14 14 |
| | JUNE . | 4 21 15 | 4 22 21 | | MAY . | 2 23 41 | 2 21 59 |
| | JULY . | 4 9 59 | 4 13 35 | | JUNE . | 1 12 25 | 1 5 45 |
| | AUG. . | 2 22 43 | 3 3 53 | | JULY . | { 1 1 9 | { 30 14 37 |
| | SEPT. . | 1 11 27 | 1 17 12 | | ○ | { 30 13 53 | 30 1 33 |
| | ○ | { 1 0 11 | 1 5 25 | | AUG. . | 29 2 37 | 28 15 11 |
| | OCT. . | { 30 12 55 | 30 16 54 | | SEPT. . | 27 15 21 | 27 7 31 |
| | NOV. . | 29 1 39 | 29 4 2 | | OCT. . | 27 4 5 | 27 1 46 |
| | DEC. . | 28 14 23 | 28 14 53 | | NOV. . | 25 16 42 | 25 20 40 |
| | | | | | DEC. . | 25 5 33 | 25 14 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1601. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1604. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | A.G. | | | |
| March. | JAN. . | 23 18 18 | 24 6 42 | March. | JAN. . | 21 9 28 | 21 4 53 |
| <i>d. h. m.</i> | FEB. . | 22 7 2 | 22 19 58 | <i>d. h. m.</i> | FEB. . | 19 22 12 | 19 23 2 |
| 10 17 31 | MAR. . | 23 19 46 | 24 6 34 | 10 10 58 | MAR. . | 20 10 56 | 20 16 54 |
| | APRIL | 22 8 30 | 22 15 1 | | APRIL | 18 23 40 | 19 9 16 |
| | MAY . | 21 21 14 | 21 22 8 | | MAY . | 18 12 24 | 18 23 23 |
| | ○ | { 5 15 36 | 5 19 53 | | JUNE . | 17 1 8 | 17 11 2 |
| | JUNE . | { 20 9 58 | 20 4 58 | | JULY . | 16 13 52 | 16 20 41 |
| | JULY . | 19 22 42 | 19 12 37 | | AUG. . | 15 2 36 | 15 5 13 |
| | AUG. . | 18 11 26 | 17 22 9 | | SEPT. . | 13 15 20 | 13 13 35 |
| | SEPT. . | 17 0 10 | 16 10 28 | | OCT. . | 13 4 4 | 12 22 37 |
| | OCT. . | 16 12 54 | 16 1 51 | | NOV. . | 11 16 48 | 11 8 55 |
| | NOV. . | { 15 1 38 | 14 19 54 | | DEC. . | 11 5 32 | 10 20 45 |
| | ○ | { 29 20 0 | 29 19 41 | | | | |
| | DEC. . | 14 14 22 | 14 15 22 | 1605. | JAN. . | 9 18 16 | 9 10 10 |
| 1602. | JAN. . | 13 3 6 | 13 10 36 | F. | FEB. . | 8 7 0 | 8 1 5 |
| C. | FEB. . | 11 15 50 | 12 4 2 | 10 16 47 | MAR. . | { 9 19 44 | 9 17 8 |
| 10 23 20 | MAR. . | 13 4 34 | 13 18 36 | | ○ | { 24 14 6 | 24 22 31 |
| | APRIL | 11 17 18 | 12 6 6 | | APRIL | 8 8 28 | 8 9 40 |
| | MAY . | { 11 6 2 | 11 14 59 | | MAY . | 7 21 12 | 8 1 54 |
| | ○ | { 26 0 24 | 25 20 35 | | JUNE . | 6 9 56 | 6 17 0 |
| | JUNE . | 9 18 46 | 9 22 14 | | JULY . | 5 22 40 | 6 6 28 |
| | JULY . | 9 7 30 | 9 4 53 | | AUG. . | 4 11 24 | 4 18 13 |
| | AUG. . | 7 20 14 | 7 12 3 | | SEPT. . | { 3 0 8 | 3 4 44 |
| | SEPT. . | 6 8 58 | 5 20 47 | | ○ | { 17 18 30 | 17 6 7 |
| | OCT. . | 5 21 42 | 5 7 58 | | OCT. . | 2 12 52 | 2 14 42 |
| | NOV. . | { 4 10 26 | 3 22 5 | | NOV. . | { 1 1 36 | 1 0 45 |
| | ○ | { 19 4 48 | 19 10 35 | | DEC. . | { 30 14 20 | 30 11 15 |
| | DEC. . | 3 23 10 | 3 15 0 | | | 30 3 4 | 29 22 23 |
| 1603. | JAN. . | 2 11 55 | 2 9 51 | 1606. | JAN. . | 28 15 49 | 28 10 11 |
| B. | FEB. . | 1 0 39 | 1 5 9 | E. | FEB. . | 27 4 33 | 26 22 44 |
| 11 5 9 | MAR. . | 2 13 23 | 2 23 17 | | ○ | { 13 22 55 | 14 12 32 |
| | APRIL | { 1 2 7 | 1 15 1 | | MAR. . | { 28 17 17 | 28 12 13 |
| | ○ | { 30 14 51 | { 1 3 47 | | APRIL | 27 6 1 | 27 2 40 |
| | MAY . | { 15 9 13 | { 15 1 41 | | MAY . | 26 18 45 | 26 17 51 |
| | JUNE . | { 30 3 35 | { 30 13 49 | | JUNE . | 25 7 29 | 25 9 15 |
| | JULY . | 28 16 19 | 28 21 53 | | JULY . | 24 20 13 | 25 0 15 |
| | AUG. . | 26 17 47 | 26 12 31 | | AUG. . | 23 8 57 | 23 14 19 |
| | SEPT. . | 25 6 31 | 24 21 6 | | ○ | { 7 3 19 | 6 13 48 |
| | OCT. . | 24 19 15 | 24 7 36 | | SEPT. . | { 21 21 41 | 22 3 18 |
| | ○ | { 8 13 37 | 8 20 32 | | OCT. . | 21 10 25 | 21 15 25 |
| | NOV. . | { 23 7 59 | 22 20 27 | | NOV. . | 19 23 9 | 20 2 54 |
| | DEC. . | 22 20 43 | 22 11 42 | | DEC. . | 19 11 53 | 19 14 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1607. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1610. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | G. | | | |
| March. | JAN. . | 18 0 37 | 18 0 44 | March. | JAN. . | 14 15 47 | 15 3 9 |
| <i>d. h. m.</i> | FEB. . | 16 13 21 | 16 11 18 | <i>d. h. m.</i> | FEB. . | 13 4 31 | 13 17 48 |
| 11 4 24 | MAR. . | 18 2 5 | 17 21 42 | 10 21 51 | MAR. . | 14 17 15 | 15 5 37 |
| | APRIL | 16 14 49 | 16 8 39 | | APRIL | 13 5 59 | 13 14 55 |
| | MAY . | 16 3 33 | 15 20 42 | | MAY . | 12 18 43 | 12 22 28 |
| | JUNE . | 14 16 17 | 14 10 11 | | JUNE . | { 11 7 27 | 11 5 14 |
| | JULY . | 14 5 1 | 14 1 4 | | ○ | { 26 1 49 | 26 6 34 |
| | AUG. . | { 12 17 45 | 12 16 35 | | JULY . | 10 20 11 | 10 12 18 |
| | ○ | { 27 12 7 | 27 4 7 | | AUG. . | 9 8 55 | 8 20 47 |
| | SEPT. . | 11 6 29 | 11 8 58 | | SEPT. . | 7 21 39 | 7 7 41 |
| | OCT. . | 10 19 13 | 11 0 31 | | OCT. . | 7 10 23 | 6 21 37 |
| | NOV. . | 9 7 57 | 9 15 6 | | NOV. . | 5 23 7 | 5 14 31 |
| | DEC. . | 8 20 41 | 9 4 23 | | DEC. . | { 5 11 51 | 5 9 31 |
| | | | | | ○ | { 20 6 13 | 20 5 33 |
| 1608. | JAN. . | 7 9 23 | 7 16 27 | | | | |
| C.B. | FEB. . | 5 22 10 | 6 3 9 | 1611. | JAN. . | 4 0 36 | 4 5 8 |
| 10 10 13 | MAR. . | 6 10 54 | 6 12 45 | F. | FEB. . | 2 13 20 | 2 23 36 |
| | APRIL | 4 23 38 | 4 21 38 | 11 3 40 | MAR. . | 4 2 4 | 4 15 37 |
| | MAY . | 4 12 22 | 4 6 31 | | APRIL | 2 14 48 | 3 4 33 |
| | JUNE . | 3 1 6 | 2 16 18 | | MAY . | { 2 3 32 | 2 14 35 |
| | JULY . | { 2 13 50 | { 2 3 48 | | | { 31 16 16 | 31 22 29 |
| | ○ | { 17 8 12 | { 17 13 16 | | JUNE . | 30 5 0 | 30 5 17 |
| | | { 1 2 34 | { 31 17 32 | | JULY . | 29 17 44 | 29 12 6 |
| | AUG. . | { 30 15 18 | 30 9 23 | | AUG. . | 28 6 23 | 27 20 3 |
| | SEPT. . | 29 4 2 | 29 2 41 | | SEPT. . | 26 19 12 | 26 6 1 |
| | OCT. . | 28 16 46 | 28 20 22 | | OCT. . | 26 7 56 | 25 18 44 |
| | NOV. . | 27 5 30 | 27 13 20 | | NOV. . | 24 20 40 | 24 10 19 |
| | DEC. . | 26 18 14 | 27 4 41 | | DEC. . | 24 9 24 | 24 4 17 |
| | ○ | { 10 12 36 | 10 4 40 | | | | |
| 1609. | JAN. . | { 25 6 59 | 25 17 56 | 1612. | JAN. . | 22 22 9 | 22 23 23 |
| A. | FEB. . | 23 19 43 | 24 4 59 | E.D. | FEB. . | 21 10 53 | 21 13 14 |
| 10 16 2 | MAR. . | 25 8 27 | 25 14 9 | 10 9 29 | MAR. . | 21 23 37 | 22 11 10 |
| | APRIL | 23 21 11 | 23 22 3 | | APRIL | 20 12 21 | 21 1 23 |
| | MAY . | 23 9 55 | 23 5 30 | | ○ | { 5 6 43 | 4 23 51 |
| | JUNE . | 21 22 39 | 21 13 35 | | MAY . | { 20 1 5 | 20 12 41 |
| | ○ | { 6 17 1 | 7 1 33 | | JUNE . | 18 13 49 | 18 21 40 |
| | JULY . | { 21 11 23 | 20 23 18 | | JULY . | 18 2 33 | 18 5 15 |
| | AUG. . | 20 0 7 | 19 11 34 | | AUG. . | 16 15 17 | 16 12 36 |
| | SEPT. . | 18 12 51 | 18 2 40 | | SEPT. . | 15 4 1 | 14 20 40 |
| | OCT. . | 18 1 35 | 17 20 15 | | OCT. . | { 14 16 45 | 14 6 17 |
| | NOV. . | 16 14 19 | 16 15 10 | | ○ | { 29 11 7 | 29 16 40 |
| | DEC. . | { 16 3 3 | 16 9 57 | | NOV. . | 13 5 29 | 12 13 0 |
| | ○ | { 30 21 23 | 30 14 33 | | DEC. . | 12 13 13 | 12 8 2 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1613. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1616. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| C. | | | | G.F. | | | |
| March. | JAN. . | 11 6 57 | 11 0 11 | | JAN. . | 8 22 7 | 8 23 52 |
| <i>d. h. m.</i> | FEB. . | 9 19 41 | 9 17 46 | | FEB. . | { 7 10 51 | 7 10 20 |
| 10 15 17 | MAR. . | 11 8 25 | 11 11 43 | March. | ○ | { 22 5 13 | 22 15 24 |
| | APRIL | { 9 21 9 | 10 4 48 | <i>d. h. m.</i> | MAR. . | 7 23 35 | 7 20 33 |
| | ○ | { 24 15 31 | 24 13 44 | 10 8 44 | APRIL | 6 12 19 | 6 6 55 |
| | MAY . | 9 9 53 | 9 20 1 | | MAY . | 6 1 3 | 5 18 4 |
| | JUNE . | 7 22 37 | 8 8 55 | | JUNE . | 4 13 47 | 4 6 35 |
| | JULY . | 7 11 21 | 7 19 37 | | JULY . | 4 2 31 | 3 20 45 |
| | AUG. . | 6 0 5 | 6 4 46 | | AUG. . | { 2 15 15 | 2 12 14 |
| | SEPT. . | 4 12 49 | 4 13 19 | | ○ | { 17 9 37 | 17 4 6 |
| | OCT. . | { 4 1 33 | 3 22 9 | | SEPT. . | { 1 3 59 | 1 4 27 |
| | ○ | { 18 19 55 | 18 17 13 | | ○ | { 30 16 43 | 30 20 37 |
| | NOV. . | 2 14 17 | 2 7 55 | | OCT. . | 30 5 27 | 30 12 2 |
| | DEC. . | { 2 3 1 | 1 19 1 | | NOV. . | 23 18 11 | 29 2 14 |
| | | { 31 15 45 | 31 7 34 | | DEC. . | 23 6 55 | 23 15 0 |
| 1614. | JAN. . | 30 4 30 | 29 21 35 | 1617. | JAN. . | 26 19 40 | 27 2 20 |
| B. | FEB. . | 23 17 14 | 23 12 51 | E. | ○ | { 10 14 2 | 10 15 10 |
| 10 21 6 | MAR. . | 30 5 58 | 30 4 57 | | FEB. . | { 25 8 24 | 25 12 19 |
| | ○ | { 14 0 20 | 14 6 33 | 10 14 33 | MAR. . | 26 21 8 | 26 21 17 |
| | APRIL | { 23 18 42 | 23 21 14 | | APRIL | 25 9 52 | 25 5 50 |
| | MAY . | 23 7 26 | 23 12 53 | | MAY . | 24 22 36 | 24 14 50 |
| | JUNE . | 26 20 10 | 27 3 17 | | JUNE . | 23 11 20 | 23 1 15 |
| | JULY . | 26 8 54 | 26 16 3 | | JULY . | 23 0 4 | 22 13 47 |
| | AUG. . | 24 21 38 | 25 3 21 | | ○ | { 6 18 26 | 6 20 59 |
| | SEPT. . | 23 10 22 | 23 13 47 | | AUG. . | { 21 12 43 | 21 4 39 |
| | ○ | { 8 4 44 | 7 17 54 | | SEPT. . | 20 1 32 | 19 21 30 |
| | OCT. . | { 22 23 6 | 22 23 53 | | OCT. . | 19 14 16 | 19 15 22 |
| | NOV. . | 21 11 50 | 21 10 22 | | NOV. . | 18 3 0 | 18 9 4 |
| | DEC. . | 21 0 34 | 20 21 13 | | DEC. . | 17 15 44 | 18 1 29 |
| 1615. | JAN. . | 19 13 19 | 19 8 33 | 1618. | JAN. . | { 16 4 29 | 16 15 53 |
| A. | FEB. . | 18 2 3 | 17 20 29 | D. | ○ | { 30 22 51 | 30 16 44 |
| 11 2 55 | MAR. . | 19 14 47 | 19 9 12 | | FEB. . | 14 17 13 | 15 3 57 |
| | APRIL | 18 3 31 | 17 22 52 | 10 20 22 | MAR. . | 16 5 57 | 16 13 53 |
| | MAY . | 17 16 15 | 17 13 30 | | APRIL | 14 18 41 | 14 22 10 |
| | JUNE . | 16 4 59 | 16 4 47 | | MAY . | 14 7 25 | 14 5 33 |
| | JULY . | 15 17 43 | 15 20 8 | | JUNE . | 12 20 9 | 12 13 3 |
| | AUG. . | 14 6 27 | 14 10 53 | | JULY . | 12 8 53 | 11 21 44 |
| | SEPT. . | 12 19 11 | 13 0 42 | | AUG. . | 10 21 37 | 10 8 39 |
| | OCT. . | 12 7 55 | 12 13 32 | | SEPT. . | 9 10 21 | 8 22 24 |
| | NOV. . | 10 20 39 | 11 1 33 | | OCT. . | 8 23 5 | 8 14 56 |
| | DEC. . | 10 9 23 | 10 12 53 | | NOV. . | 7 11 49 | 7 9 30 |
| | | | | | DEC. . | 7 0 33 | 7 4 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1619. c. March. d. h. m. 11 2 10 | | d. h. m. | d. h. m. | A.D. 1622. F. March. d. h. m. 10 19 37 | | d. h. m. | d. h. m. |
| | JAN. . | 5 13 18 | 5 22 57 | | JAN. . | { 2 4 27 81 17 11 | 1 20 3 81 12 50 |
| | FEB. . | 4 2 2 | 4 14 58 | | FEB. . | ... | ... |
| | MAR. . | 5 14 45 | 6 4 6 | | MAR. . | { 2 5 55 81 18 39 | 2 6 80 81 23 57 |
| | APRIL . | 4 3 29 | 4 14 31 | | APRIL . | 80 7 23 | 80 16 5 |
| | MAY . | 3 16 13 | 3 22 41 | | MAY . | 29 20 7 | 80 6 10 |
| | JUNE . | { 2 4 57 16 23 19 | 2 5 38 17 2 22 | | JUNE . | 28 8 51 | 28 18 0 |
| | ○ | { 1 17 41 81 6 25 | 1 12 21 30 20 1 | | JULY . | 27 21 35 | 28 3 59 |
| | JULY . | 29 19 9 | 29 5 40 | | AUG. . | 26 10 19 | 26 12 56 |
| | AUG. . | 28 7 53 | 27 18 6 | | SEPT. . | 24 23 3 | 24 21 45 |
| | SEPT. . | 27 20 37 | 27 9 39 | | OCT. . | 24 11 47 | 24 7 12 |
| | OCT. . | 26 9 21 | 26 3 49 | | NOV. . | 23 0 31 | 22 17 43 |
| | NOV. . | { 11 3 43 25 22 5 | 11 4 37 25 28 21 | | DEC. . | 22 13 15 | 22 5 31 |
| | DEC. . | 21 10 50 | 24 18 34 | 1623. E. 11 1 26 | JAN. . | 21 1 59 | 20 18 39 |
| 1620. B.A. 10 7 59 | JAN. . | 22 23 34 | 23 11 52 | | FEB. . | 19 14 43 | 19 9 2 |
| | FEB. . | 23 12 18 | 24 2 17 | | MAR. . | 21 3 28 | 21 0 31 |
| | MAR. . | 22 1 2 | 22 13 33 | | ○ | { 4 21 50 19 16 12 | 5 6 30 19 16 32 |
| | APRIL . | 21 13 46 | 21 22 26 | | APRIL . | 19 4 56 | 19 8 23 |
| | MAY . | { 5 8 8 20 2 30 | 5 3 10 20 5 39 | | MAY . | 17 17 40 | 17 23 34 |
| | ○ | 19 15 14 | 19 12 23 | | JUNE . | 17 6 24 | 17 18 16 |
| | JUNE . | 18 3 58 | 17 19 45 | | JULY . | 15 19 8 | 16 1 30 |
| | AUG. . | 16 16 42 | 16 4 43 | | AUG. . | { 14 7 52 29 2 14 | 14 12 35 28 13 36 |
| | SEPT. . | 16 5 26 | 15 13 5 | | ○ | 13 20 36 | 13 23 4 |
| | OCT. . | { 14 13 10 29 12 32 | 14 6 18 29 19 19 | | OCT. . | 12 9 20 | 12 9 31 |
| | NOV. . | 14 6 54 | 13 23 10 | | NOV. . | 11 22 4 | 11 20 12 |
| | ○ | 12 19 33 | 12 17 43 | 1624. D.C. 10 7 15 | DEC. . | 10 10 43 | 10 7 14 |
| 1621. G. 10 13 48 | JAN. . | 11 8 22 | 11 12 49 | | JAN. . | 8 23 32 | 8 13 41 |
| | FEB. . | 12 21 6 | 13 6 41 | | FEB. . | { 9 12 16 24 6 33 | 9 6 41 24 20 22 |
| | MAR. . | 11 9 50 | 11 22 13 | | ○ | 8 1 0 | 7 19 33 |
| | APRIL . | { 10 22 34 25 16 56 | 11 10 55 25 3 42 | | APRIL . | 7 13 44 | 7 9 27 |
| | MAY . | 9 11 13 | 9 21 0 | | MAY . | 6 2 23 | 6 0 20 |
| | ○ | 9 0 2 | 9 5 14 | | JUNE . | 5 15 12 | 5 13 43 |
| | JUNE . | 7 12 46 | 7 12 43 | | AUG. . | 4 3 53 | 4 6 53 |
| | JULY . | 6 1 30 | 5 20 28 | | SEPT. . | { 2 16 40 17 11 2 | 2 21 33 16 21 36 |
| | AUG. . | 5 14 14 | 5 5 23 | | ○ | 2 5 24 | 2 11 10 |
| | SEPT. . | { 4 2 53 18 21 20 | 3 16 7 19 4 46 | | OCT. . | { 81 18 3 30 6 52 | 81 23 50 30 11 43 |
| | OCT. . | 3 15 42 | 3 5 0 | | NOV. . | 29 19 36 | 29 22 56 |
| | NOV. . | | | | DEC. . | | |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1625. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1628. F.E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 10 13 3 | JAN. . | 23 8 21 | 28 9 34 | March. <i>d. h. m.</i> 10 6 30 | ○ | { 11 5 9 | 10 23 26 |
| | FEB. . | 26 21 5 | 26 19 40 | | JAN. . | { 25 23 31 | 26 11 22 |
| | MAR. . | { 18 15 27 | 14 3 25 | | FEB. . | 24 12 15 | 25 1 57 |
| | APRIL | { 23 9 49 | 23 5 37 | | MAR. . | 25 0 59 | 25 13 36 |
| | MAY . | 26 22 33 | 26 16 0 | | APRIL | 23 13 43 | 23 22 40 |
| | JUNE . | 26 11 17 | 26 3 34 | | MAY . | 23 2 27 | 23 6 1 |
| | JULY . | 25 0 1 | 24 16 46 | | JUNE . | 21 15 11 | 21 12 40 |
| | AUG. . | 23 1 29 | 22 23 43 | | ○ | { 6 9 33 | 6 13 7 |
| | ○ | { 6 19 51 | 6 12 4 | | JULY . | { 21 3 55 | 20 19 44 |
| | SEPT. . | { 21 14 13 | 21 16 15 | | AUG. . | 19 16 39 | 19 4 19 |
| | OCT. . | 21 2 57 | 21 8 24 | | SEPT. . | 18 5 23 | 17 15 21 |
| | NOV. . | 19 15 41 | 19 23 31 | | OCT. . | 17 18 7 | 17 5 26 |
| | DEC. . | 19 4 25 | 19 13 11 | | NOV. . | 16 6 51 | 15 22 27 |
| | | | | | DEC. . | { 15 19 35 | 15 17 30 |
| 1626. A. | JAN. . | 17 17 10 | 18 1 16 | 1629. D. | ○ | { 30 13 57 | 30 14 31 |
| 10 18 52 | FEB. . | 16 5 54 | 16 11 47 | | JAN. . | 14 8 20 | 14 13 4 |
| | MAR. . | 17 18 38 | 17 21 1 | | FEB. . | 12 21 4 | 13 7 26 |
| | APRIL | 16 7 22 | 16 5 23 | 10 12 19 | MAR. . | 14 9 48 | 14 23 18 |
| | MAY . | 15 20 6 | 15 13 54 | | APRIL | 12 22 32 | 13 12 5 |
| | JUNE . | 14 8 50 | 13 23 20 | | MAY . | 12 11 16 | 12 22 1 |
| | JULY . | 13 21 34 | 13 10 33 | | JUNE . | 11 0 0 | 11 5 53 |
| | AUG. . | 12 10 18 | 12 0 21 | | JULY . | 10 12 44 | 10 12 45 |
| | SEPT. . | 10 23 2 | 10 16 25 | | AUG. . | 9 1 28 | 8 19 46 |
| | OCT. . | 10 11 46 | 10 10 6 | | SEPT. . | 7 14 12 | 7 3 56 |
| | NOV. . | 9 0 30 | 9 4 16 | | OCT. . | 7 2 56 | 6 14 8 |
| | DEC. . | 8 13 14 | 8 21 39 | | NOV. . | 5 15 40 | 5 2 58 |
| | | | | | DEC. . | 5 4 24 | 4 18 34 |
| 1627. G. | JAN. . | { 7 1 58 | 7 13 13 | 1630. C. | JAN. . | 3 17 8 | 3 12 22 |
| 11 0 41 | ○ | { 21 20 20 | 21 12 59 | | FEB. . | 2 5 52 | 2 7 14 |
| | FEB. . | 5 14 42 | 6 2 27 | 10 18 8 | MAR. . | 3 18 36 | 4 1 41 |
| | MAR. . | 7 3 26 | 7 13 19 | | APRIL | 2 7 20 | 2 18 23 |
| | APRIL | 5 16 10 | 5 22 9 | | | 1 20 4 | 2 8 29 |
| | MAY . | 5 4 54 | 5 5 44 | | MAY ○ | { 16 14 26 | 16 7 4 |
| | JUNE . | 3 17 38 | 3 12 54 | | | { 31 8 48 | 31 19 48 |
| | JULY . | { 3 6 22 | 2 20 46 | | JUNE . | 29 21 32 | 30 4 55 |
| | ○ | { 18 0 44 | 18 8 31 | | JULY . | 29 10 16 | 29 12 46 |
| | AUG. . | { 1 19 6 | 1 6 27 | | AUG. . | 27 23 0 | 27 20 26 |
| | | { 31 7 50 | 30 18 46 | | SEPT. . | 26 11 44 | 26 4 52 |
| | SEPT. . | 29 20 34 | 29 10 2 | | OCT. . | 26 0 28 | 25 14 46 |
| | OCT. . | 29 9 18 | 29 3 51 | | ○ | { 9 18 50 | 10 0 42 |
| | NOV. . | 27 22 2 | 27 23 4 | | NOV. . | { 24 13 12 | 24 2 36 |
| | DEC. . | 27 10 46 | 27 18 4 | | DEC. . | 24 1 56 | 23 16 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1631. B. March. <i>d. h. m.</i> 10 23 56 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1634. E. March. <i>d. h. m.</i> 10 17 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 22 14 41 | 22 8 21 | | JAN. . | 19 5 51 | 19 8 47 |
| | FEB. . | 21 8 25 | 21 1 27 | | FEB. . | 17 18 35 | 17 18 57 |
| | MAR. . | 22 16 9 | 22 18 54 | | ○ | { 4 12 57 | 4 22 57 |
| | APRIL. | 21 4 53 | 21 11 39 | | MAR. . | { 19 7 19 | 19 4 40 |
| | ○ | { 5 23 15 | 5 21 22 | | APRIL | 17 20 8 | 17 14 29 |
| | MAY . | { 20 17 37 | 21 2 46 | | MAY . | 17 8 47 | 17 1 8 |
| | JUNE . | 19 6 21 | 19 15 46 | | JUNE . | 15 21 31 | 15 13 18 |
| | JULY . | 18 19 5 | 19 2 45 | | JULY . | 15 10 15 | 15 3 17 |
| | AUG. . | 17 7 49 | 17 12 20 | | AUG. . | { 13 22 59 | 13 18 55 |
| | SEPT. . | 15 20 33 | 15 21 21 | | ○ | { 28 17 21 | 28 11 57 |
| | OCT. . | { 15 9 17 | 15 6 37 | | SEPT. . | 12 11 43 | 12 11 32 |
| | ○ | { 30 8 39 | 30 1 32 | | OCT. . | 12 0 27 | 12 4 15 |
| | NOV. . | 13 22 1 | 13 16 41 | | NOV. . | 10 13 11 | 10 20 14 |
| | DEC. . | 13 10 45 | 13 3 53 | | DEC. . | 10 1 55 | 10 10 52 |
| 1632. A.G. 10 5 45 | JAN. . | 11 23 29 | 11 16 15 | 1635. D. 10 23 12 | JAN. . | 8 14 39 | 8 23 49 |
| | FEB. . | 10 12 13 | 10 5 47 | | FEB. . | { 7 3 23 | 7 11 2 |
| | MAR. . | 11 0 57 | 10 20 27 | | ○ | { 21 21 45 | 21 22 44 |
| | APRIL. | { 9 18 41 | 9 11 58 | | MAR. . | 8 16 7 | 8 20 43 |
| | ○ | { 24 8 3 | 24 14 23 | | APRIL | 7 4 51 | 7 5 16 |
| | MAY . | 9 2 25 | 9 3 52 | | MAY . | 6 17 35 | 6 13 21 |
| | JUNE . | 7 15 9 | 7 19 24 | | JUNE . | 5 6 19 | 4 22 0 |
| | JULY . | 7 3 53 | 7 9 56 | | JULY . | 4 19 3 | 4 8 9 |
| | AUG. . | 5 16 37 | 5 23 4 | | AUG. . | { 3 7 47 | 2 20 36 |
| | SEPT. . | 4 5 21 | 4 10 56 | | ○ | { 18 2 9 | 18 4 37 |
| | OCT. . | { 3 18 5 | 3 21 56 | | SEPT. . | 1 20 31 | 1 11 36 |
| | ○ | { 18 12 27 | 18 1 33 | | OCT. . | { 1 9 15 | 1 4 45 |
| | NOV. . | 2 6 49 | 2 8 34 | | FEB. . | { 26 0 56 | 26 12 20 |
| | DEC. . | { 1 19 33 | 1 19 16 | | MAR. . | 26 13 40 | 26 21 59 |
| | | { 31 8 17 | 31 6 9 | | APRIL | 25 2 24 | 25 5 55 |
| 1633. F. 10 11 34 | JAN. . | 29 21 2 | 29 17 14 | 1636. C.B. 10 5 1 | JAN. . | 27 12 12 | 28 0 24 |
| | FEB. . | 28 9 46 | 28 4 41 | | ○ | { 11 6 34 | 11 0 45 |
| | MAR. . | 29 22 30 | 29 16 46 | | FEB. . | { 26 0 56 | 26 12 20 |
| | APRIL | 28 11 14 | 28 5 52 | | MAR. . | 26 13 40 | 26 21 59 |
| | MAY . | 27 23 58 | 27 20 5 | | APRIL | 25 2 24 | 25 5 55 |
| | JUNE . | 26 12 42 | 26 11 13 | | MAY . | 24 15 8 | 24 13 2 |
| | JULY . | 26 1 23 | 26 2 42 | | JUNE . | 23 3 52 | 22 20 29 |
| | AUG. . | 21 14 10 | 24 17 54 | | JULY . | 22 16 36 | 22 4 57 |
| | SEPT. . | 23 2 54 | 23 8 18 | | ○ | { 6 10 53 | 6 17 42 |
| | OCT. . | 22 15 33 | 22 21 43 | | AUG. . | { 21 5 20 | 20 15 52 |
| | NOV. . | 21 4 22 | 21 10 13 | | SEPT. . | 19 18 4 | 19 5 43 |
| | DEC. . | 20 17 6 | 20 21 49 | | OCT. . | 19 6 48 | 18 22 30 |
| | | | | | NOV. . | 17 19 32 | 17 17 18 |
| | | | | | DEC. . | 17 8 16 | 17 12 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1637. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1640. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 15 21 1 | 16 7 5 | E.D. March. | JAN. . | 13 12 11 | 13 4 24 |
| <i>d. h. m.</i> | FEB. . | 14 9 45 | 14 23 5 | <i>d. h. m.</i> | FEB. . | 12 0 55 | 11 20 43 |
| 10 10 49 | MAR. . | 15 22 29 | 16 12 6 | 10 4 16 | MAR. . | 12 13 39 | 12 13 52 |
| | APRIL | 14 11 13 | 14 22 16 | | APRIL | 11 2 23 | 11 6 54 |
| | MAY . | 13 23 57 | 14 6 15 | | MAY . | 10 15 7 | 10 22 49 |
| | JUNE . | 12 12 41 | 12 13 5 | | JUNE . | 9 3 51 | 9 12 55 |
| | JULY . | 12 1 25 | 11 19 49 | | JULY . | 8 16 35 | 9 0 59 |
| | AUG. . | 10 14 9 | 10 3 32 | | AUG. . | 7 5 19 | 7 11 22 |
| | SEPT. . | 9 2 53 | 8 13 20 | | SEPT. . | 5 18 3 | 5 20 47 |
| | OCT. . | 8 15 37 | 8 1 55 | | OCT. . | 5 6 47 | 5 6 4 |
| | NOV. . | 7 4 21 | 6 17 36 | | NOV. . | 3 19 31 | 3 15 53 |
| | DEC. . | { 6 17 5 | 6 11 48 | | DEC. . | 3 8 15 | 3 2 36 |
| | ○ | { 21 11 27 | 21 13 36 | | | | |
| 1638. | JAN. . | 5 5 49 | 5 7 18 | 1641. | JAN. . | { 1 20 59 | 1 14 18 |
| G. | FEB. . | 3 18 33 | 4 2 23 | C. | FEB. . | { 31 9 43 | 31 3 5 |
| 10 16 38 | MAR. . | 5 7 17 | 5 19 32 | 10 10 5 | MAR. . | ... | ... |
| | APRIL | 3 20 1 | 4 9 48 | | ○ | { 1 22 27 | 1 16 55 |
| | MAY . | 3 8 45 | 3 21 2 | | APRIL | { 31 11 11 | 31 7 45 |
| | JUNE . | { 1 21 29 | 2 5 48 | | ○ | { 15 5 33 | 15 14 21 |
| | ○ | { 16 15 51 | 16 9 42 | | MAY . | { 29 23 55 | 29 23 18 |
| | JULY . | { 1 10 13 | 1 13 4 | | JUNE . | { 29 12 39 | 29 14 58 |
| | AUG. . | { 30 22 57 | 30 19 58 | | JULY . | { 28 1 23 | 28 6 5 |
| | SEPT. . | 29 11 41 | 29 3 34 | | AUG. . | { 27 14 7 | 27 20 6 |
| | OCT. . | 28 0 25 | 27 12 47 | | SEPT. . | { 26 2 51 | 26 8 50 |
| | NOV. . | 27 13 9 | 27 0 20 | | ○ | { 24 15 35 | 24 20 29 |
| | DEC. . | 26 1 53 | 25 14 36 | | OCT. . | { 9 9 57 | 8 21 16 |
| | ○ | { 10 20 15 | 11 4 4 | | NOV. . | { 24 4 19 | 24 7 31 |
| | DEC. . | { 25 14 37 | 25 7 19 | | DEC. . | { 22 17 3 | 22 18 21 |
| 1639. | JAN. . | 24 3 22 | 24 1 41 | 1642. | JAN. . | 22 5 47 | 22 5 10 |
| F. | FEB. . | 22 16 6 | 22 20 21 | B. | FEB. . | | |
| 10 22 27 | MAR. . | 24 4 50 | 24 13 57 | 10 15 54 | MAR. . | 20 18 32 | 20 16 5 |
| | APRIL | 22 17 34 | 23 5 19 | | FEB. . | 19 7 16 | 19 3 7 |
| | MAY . | 22 6 18 | 22 17 59 | | MAR. . | 20 20 0 | 20 14 33 |
| | ○ | { 6 0 40 | 5 15 45 | | ○ | { 4 14 22 | 5 4 4 |
| | JUNE . | { 20 19 2 | 21 4 10 | | APRIL | { 19 8 44 | 19 2 47 |
| | JULY . | 20 7 46 | 20 12 39 | | MAY . | 18 21 28 | 18 16 13 |
| | AUG. . | 18 20 30 | 18 20 27 | | JUNE . | 17 10 12 | 17 6 49 |
| | SEPT. . | 17 9 14 | 17 4 35 | | JULY . | 16 22 56 | 16 22 13 |
| | OCT. . | 16 21 53 | 16 13 50 | | AUG. . | 15 11 40 | 15 13 47 |
| | NOV. . | { 15 10 42 | 15 0 45 | | SEPT. . | { 14 0 24 | 14 4 54 |
| | ○ | { 30 5 4 | 30 13 3 | | ○ | { 28 18 46 | 28 5 34 |
| | DEC. . | 14 23 26 | 14 13 37 | | OCT. . | 13 13 8 | 13 19 9 |
| | | | | | NOV. . | 12 1 52 | 12 8 21 |
| | | | | | DEC. . | 11 14 36 | 11 20 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1643. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1646. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 10 21 42 | JAN. . | 10 3 21 | 10 7 54 | D. JAN. . | { 6 18 30 | 7 2 9 | |
| | FEB. . | 8 16 5 | 8 18 17 | O FEB. . | { 21 12 52 | 21 8 10 | |
| | MAR. . | { 10 4 49 | 10 3 59 | <i>d. h. m.</i> 10 15 9 | MAR. . | 5 7 14 | 5 19 27 |
| | O | { 24 23 11 | 25 10 43 | | MAR. . | 6 19 53 | 7 9 55 |
| | APRIL | 8 17 33 | 8 13 24 | | APRIL | 5 8 42 | 5 21 22 |
| | MAY . | 8 6 17 | 7 23 18 | | MAY . | 4 21 26 | 5 6 16 |
| | JUNE . | 6 19 1 | 6 10 25 | | JUNE . | 3 10 10 | 3 18 23 |
| | JULY . | 6 7 45 | 5 23 23 | | JULY . | { 2 22 54 | 2 20 6 |
| | AUG. . | 4 20 29 | 4 14 15 | | O | { 17 17 16 | 17 19 39 |
| | SEPT. . | { 3 9 13 | 3 6 33 | | AUG. . | { 1 11 33 | 1 8 14 |
| | O | { 18 3 35 | 17 20 8 | | SEPT. . | { 31 0 22 | 30 11 57 |
| | OCT. . | 2 21 57 | 2 23 41 | | OCT. . | 29 13 6 | 28 23 10 |
| | NOV. . | { 1 10 41 | 1 16 24 | | NOV. . | 29 1 50 | 23 13 23 |
| | DEC. . | { 30 23 25 | { 1 7 59 | | DEC. . | 27 14 34 | 27 6 23 |
| | | 30 12 9 | 30 21 56 | | | 27 3 18 | 27 1 23 |
| 1644. | JAN. . | 29 0 53 | 29 10 0 | 1647. | O | { 10 21 40 | 10 23 23 |
| G.F. | FEB. . | 27 13 37 | 27 20 17 | C. | JAN. . | { 25 16 3 | 25 20 54 |
| 10 3 31 | MAR. . | 23 2 21 | 23 5 8 | 10 20 58 | FEB. . | 24 4 47 | 24 15 6 |
| | APRIL | 26 15 5 | 26 13 8 | | MAR. . | 25 17 31 | 26 6 43 |
| | MAY . | 26 3 49 | 25 21 12 | | APRIL | 24 6 15 | 24 19 57 |
| | JUNE . | 24 16 33 | 24 6 22 | | MAY . | 23 18 59 | 24 5 20 |
| | JULY . | 24 5 17 | 23 17 32 | | JUNE . | 22 7 43 | 22 13 15 |
| | AUG. . | 22 18 1 | 22 7 17 | | JULY . | 21 20 27 | 21 20 16 |
| | SEPT. . | 21 6 45 | 20 23 33 | | AUG. . | 20 9 11 | 20 3 31 |
| | OCT. . | 20 19 29 | 20 17 33 | | SEPT. . | 18 21 55 | 18 11 57 |
| | NOV. . | 19 8 13 | 19 12 13 | | OCT. . | 13 10 39 | 17 22 24 |
| | DEC. . | 18 20 57 | 19 5 57 | | NOV. . | 16 23 23 | 16 11 21 |
| | | | | | DEC. . | 16 12 7 | 16 2 51 |
| 1645. | JAN. . | 17 9 42 | { 17 21 42 | 1648. | JAN. . | 15 0 52 | 14 20 24 |
| E. | O | { 1 4 4 | { 31 21 16 | B.A. | FEB. . | 13 13 33 | 13 14 54 |
| 10 9 20 | FEB. . | { 15 22 26 | 16 10 52 | 10 2 47 | MAR. . | 14 2 20 | 14 9 0 |
| | MAR. . | 17 11 10 | 17 21 30 | | APRIL | 12 15 4 | 13 1 28 |
| | APRIL | 15 23 54 | 16 6 2 | | MAY . | { 12 3 43 | 12 15 23 |
| | MAY . | 15 12 33 | 15 13 19 | | O | { 26 22 10 | 26 14 16 |
| | JUNE . | 14 1 22 | 13 20 17 | | JUNE . | 10 16 32 | 11 2 52 |
| | JULY . | { 13 14 6 | 13 4 4 | | JULY . | 10 5 16 | 10 12 12 |
| | O | { 28 8 23 | 28 15 43 | | AUG. . | 8 13 0 | 8 20 23 |
| | AUG. . | 12 2 50 | 11 13 43 | | SEPT. . | 7 6 44 | 7 4 25 |
| | SEPT. . | 10 15 34 | 10 2 7 | | OCT. . | 6 19 23 | 6 13 13 |
| | OCT. . | 10 4 18 | 9 17 34 | | NOV. . | { 5 8 12 | 4 23 24 |
| | NOV. . | 8 17 2 | 8 11 37 | | O | { 20 2 34 | 20 8 43 |
| | DEC. . | 8 5 46 | 8 7 1 | | DEC. . | 4 20 56 | 4 11 13 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1649. G. March. d. h. m. 10 8 35 | | d. h. m. | d. h. m. | A.D. 1652. D.C. March. d. h. m. 10 2 2 | | d. h. m. | d. h. m. |
| | JAN. . | 3 9 40 | 3 1 2 | | JAN. . | { 1 0 50 30 13 34 | 1 6 49 30 17 35 |
| | FEB. . | 1 22 24 | 1 16 25 | | FEB. . | 29 2 18 | 29 3 25 |
| | MAR. . | 3 11 8 | 3 8 59 | | ○ | { 14 20 40 29 15 2 | 15 6 21 29 12 39 |
| | APRIL | 1 23 52 | 2 1 57 | | MAR. . | 28 3 46 | 27 21 57 |
| | MAY ○ | { 1 12 36 16 6 58 31 1 20 | 1 18 23 16 4 55 31 9 25 | | APRIL | 27 16 30 | 27 8 9 |
| | JUNE . | 29 14 4 | 29 22 35 | | JUNE . | 26 5 14 | 25 20 0 |
| | JULY . | 29 2 48 | 29 9 55 | | JULY . | 25 17 58 | 25 9 54 |
| | AUG. . | 27 15 32 | 27 19 58 | | AUG. . | 24 6 42 | 24 1 42 |
| | SEPT. . | 26 4 16 | 26 5 29 | | ○ | { 8 1 4 22 19 26 | 7 19 57 22 18 45 |
| | OCT. . | 25 17 0 | 25 15 11 | | SEPT. . | 22 8 10 | 22 12 0 |
| | ○ | { 9 11 22 24 5 44 | 9 9 15 24 1 33 | | OCT. . | 20 20 54 | 21 4 29 |
| | NOV. . | 23 18 28 | 23 12 45 | | NOV. . | 20 9 38 | 20 19 28 |
| | DEC. . | | | | DEC. . | | |
| 1650. F. 10 14 24 | JAN. . | 22 7 13 | 22 0 52 | 1653. B. 10 7 51 | JAN. . | 18 22 23 | 19 8 32 |
| | FEB. . | 20 19 57 | 20 13 54 | | FEB. . | 17 11 7 | 17 19 37 |
| | MAR. . | 22 8 41 | 22 3 58 | | ○ | { 4 5 29 18 23 51 | 4 6 12 19 4 57 |
| | APRIL | 20 21 25 | 20 18 56 | | APRIL | 17 12 35 | 17 13 5 |
| | ○ | { 5 13 47 20 10 9 | 5 22 4 20 10 25 | | MAY . | 17 1 19 | 16 20 50 |
| | MAY . | 18 22 53 | 19 1 52 | | JUNE . | 15 14 3 | 15 5 10 |
| | JUNE . | 18 11 37 | 18 16 35 | | JULY . | 15 2 47 | 14 15 8 |
| | JULY . | 17 0 21 | 17 6 11 | | AUG. . | { 13 15 31 23 9 53 | 13 8 34 28 12 23 |
| | AUG. . | 15 13 5 | 15 18 38 | | ○ | 12 4 15 | 11 18 43 |
| | SEPT. . | { 15 1 49 29 20 11 | 15 6 12 29 9 22 | | SEPT. . | 11 16 59 | 11 12 11 |
| | OCT. . | 13 14 33 | 13 17 19 | | OCT. . | 10 5 43 | 10 6 51 |
| | ○ | 13 3 17 | 13 4 15 | | NOV. . | 9 18 27 | 10 1 21 |
| | NOV. . | | | | DEC. . | | |
| | DEC. . | | | | | | |
| 1651. E. 10 20 13 | JAN. . | 11 16 2 | 11 15 5 | 1654. A. 10 13 39 | JAN. . | 8 7 12 | 8 18 19 |
| | FEB. . | 10 4 46 | 10 1 51 | | FEB. . | { 6 19 56 21 14 18 | 7 8 48 21 8 43 |
| | MAR. . | 11 17 30 | 11 12 46 | | ○ | 8 8 40 | 8 20 34 |
| | APRIL | 10 6 14 | 10 0 16 | | MAR. . | 6 21 24 | 7 5 56 |
| | MAY . | 9 18 58 | 9 12 48 | | APRIL | 6 10 8 | 6 13 37 |
| | JUNE . | 8 7 42 | 8 2 39 | | MAY . | 4 22 52 | 4 20 30 |
| | JULY . | 7 20 26 | 7 17 41 | | JUNE . | 4 11 36 | 4 3 40 |
| | AUG. . | 6 9 10 | 6 9 22 | | AUG. . | { 3 0 20 17 13 42 | { 2 12 15 18 1 0 |
| | SEPT. . | 4 21 54 | 5 1 1 | | ○ | 1 13 4 | 31 23 15 |
| | OCT. . | 4 10 38 | 4 16 1 | | SEPT. . | { 1 1 48 30 14 32 | { 30 13 16 30 6 12 |
| | NOV. . | 2 23 22 | 3 6 8 | | OCT. . | 29 3 16 | 29 1 12 |
| | DEC. . | 2 12 6 | 2 18 58 | | NOV. . | 28 16 0 | 28 20 43 |
| | | | | | DEC. . | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1655. G. March. d. h. m. 10 19 28 | JAN. . | d. h. m. 27 4 44 | d. h. m. 27 15 7 | A.D. 1658. C. March. d. h. m. 10 12 55 | JAN. . | d. h. m. 23 19 54 | d. h. m. 23 12 41 |
| | FEB. . | 25 17 28 | 26 7 2 | | FEB. . | 22 8 38 | 22 4 29 |
| | MAR. . | 27 6 12 | 27 19 54 | | MAR. . | 23 21 22 | 23 21 6 |
| | APRIL . | 25 18 56 | 26 5 54 | | APRIL . | 22 10 6 | 22 13 41 |
| | MAY . | 25 7 40 | 25 13 44 | | MAY . | 21 22 50 | 22 5 25 |
| | JUNE . | 23 20 24 | 23 20 30 | | JUNE . | 20 11 34 | 20 19 36 |
| | JULY . | 23 9 8 | 23 3 17 | | JULY . | 20 0 18 | 20 7 58 |
| | AUG. . | 21 21 52 | 21 11 10 | | AUG. . | 18 13 2 | 18 18 48 |
| | SEPT. . | 20 10 36 | 19 21 8 | | SEPT. . | 17 1 46 | 17 4 44 |
| | OCT. . | 19 23 20 | 19 9 54 | | OCT. . | 16 14 30 | 16 14 31 |
| | NOV. . | 18 12 4 | 18 1 39 | | NOV. . | 15 3 14 | 15 0 42 |
| | DEC. . | 18 0 48 | 17 19 49 | | DEC. . | 14 15 58 | 14 11 31 |
| 1656. F.E. 10 1 17 | O | { 1 19 11 | 1 22 35 | 1659. B. 10 18 44 | JAN. . | 13 4 43 | 12 23 6 |
| | JAN. . | { 16 13 33 | 16 15 12 | | FEB. . | 11 17 27 | 11 11 26 |
| | FEB. . | 15 2 17 | 15 10 6 | | MAR. . | 13 6 11 | 13 0 41 |
| | MAR. . | 15 15 1 | 16 3 4 | | APRIL . | { 11 18 55 | 11 14 54 |
| | APRIL . | 14 8 45 | 14 17 10 | | O | { 26 13 17 | 26 22 4 |
| | MAY . | 13 16 29 | 14 4 20 | | MAY . | 11 7 39 | 11 5 58 |
| | JUNE . | { 12 5 13 | 12 13 8 | | JUNE . | 9 20 23 | 9 21 25 |
| | O | { 26 23 35 | 26 16 16 | | JULY . | 9 9 7 | 9 12 38 |
| | JULY . | 11 17 57 | 11 20 31 | | AUG. . | 7 21 51 | 8 3 1 |
| | AUG. . | 10 6 41 | 10 3 39 | | SEPT. . | 6 10 35 | 6 16 13 |
| | SEPT. . | 8 19 25 | 8 11 31 | | OCT. . | { 5 23 19 | 6 4 33 |
| | OCT. . | 8 8 9 | 7 21 1 | | O | { 20 17 41 | 20 5 6 |
| | NOV. . | 6 20 53 | 6 8 46 | | NOV. . | 4 12 3 | 4 16 6 |
| | DEC. . | { 6 9 37 | 5 23 0 | | DEC. . | 4 0 47 | 4 3 16 |
| | O | { 21 8 59 | 21 12 52 | | | | |
| 1657. D. 10 7 6 | JAN. . | 4 22 22 | 4 15 32 | 1660. A.G. 10 0 32 | JAN. . | 2 13 31 | 2 14 9 |
| | FEB. . | 3 11 6 | 3 9 31 | | FEB. . | 1 2 15 | 1 0 49 |
| | MAR. . | 4 23 50 | 5 3 43 | | MAR. . | { 1 14 59 | 1 11 23 |
| | APRIL . | 3 12 34 | 3 21 3 | | O | { 31 3 43 | 30 22 15 |
| | MAY . | 3 1 18 | 3 12 16 | | APRIL . | { 14 22 5 | 15 11 33 |
| | JUNE . | { 1 14 2 | 2 0 57 | | MAY . | { 29 16 27 | 29 9 56 |
| | O | { 16 8 24 | 15 22 45 | | JUNE . | 29 5 11 | 28 22 53 |
| | JULY . | { 1 2 46 | 1 11 19 | | JULY . | 27 17 55 | 27 13 16 |
| | AUG. . | { 30 15 30 | 30 20 6 | | AUG. . | 27 6 39 | 27 4 44 |
| | SEPT. . | 29 4 14 | 29 4 16 | | SEPT. . | 25 19 23 | 25 20 51 |
| | OCT. . | 27 16 58 | 27 12 49 | | O | 24 8 7 | 24 12 21 |
| | NOV. . | 27 5 42 | 26 22 25 | | NOV. . | { 9 2 29 | 8 13 42 |
| | DEC. . | 25 18 26 | 25 9 30 | | OCT. . | { 23 20 51 | 24 3 13 |
| | O | { 10 12 48 | 10 21 22 | | NOV. . | 22 9 35 | 22 16 56 |
| | DEC. . | { 25 7 10 | 24 22 17 | | DEC. . | 21 22 19 | 22 5 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1661. F. March. d. h. m. 10 6 21 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1664. C.B. March. d. h. m. 9 23 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 20 11 4 | 20 16 45 | | JAN. . | 18 2 14 | 18 10 9 |
| | FEB. . | 18 23 48 | 19 2 52 | | ○ | { 1 20 36 | 1 16 50 |
| | MAR. . | 20 12 32 | 20 12 9 | | FEB. . | { 16 14 58 | 17 3 25 |
| | ○ | { 4 6 54 | 4 18 0 | | MAR. . | 17 3 42 | 17 17 45 |
| | APRIL | { 19 1 16 | 18 21 5 | | APRIL | 15 16 26 | 16 5 2 |
| | MAY . | 18 14 0 | 18 6 30 | | MAY . | 15 5 10 | 15 13 46 |
| | JUNE . | 17 2 44 | 16 17 15 | | JUNE . | 13 17 54 | 13 20 56 |
| | JULY . | 16 15 28 | 16 6 2 | | JULY . | { 13 6 38 | 13 3 36 |
| | AUG. . | 15 4 12 | 14 21 0 | | ○ | { 23 1 0 | 23 2 15 |
| | SEPT. . | { 13 16 56 | 13 13 40 | | AUG. . | 11 19 22 | 11 10 51 |
| | ○ | { 23 11 18 | 23 4 22 | | SEPT. . | 10 8 6 | 9 19 46 |
| | OCT. . | 13 5 40 | 13 7 11 | | OCT. . | 9 20 50 | 9 7 10 |
| | NOV. . | 11 18 24 | 12 0 26 | | NOV. . | 8 9 34 | 7 21 29 |
| | DEC. . | 11 7 8 | 11 16 27 | | DEC. . | 7 22 18 | 7 14 33 |
| 1662. E. 10 12 10 | JAN. . | 9 19 53 | 10 6 37 | 1665. A. 10 5 36 | JAN. . | { 6 11 3 | 6 9 26 |
| | FEB. . | 8 8 37 | 8 18 37 | | ○ | { 21 5 25 | 21 8 21 |
| | MAR. . | 9 21 21 | 10 4 33 | | FEB. . | 4 23 47 | 5 4 41 |
| | APRIL | 8 10 5 | 8 13 6 | | MAR. . | 6 12 31 | 6 22 38 |
| | MAY . | 7 22 49 | 7 20 45 | | APRIL | 5 1 15 | 5 14 9 |
| | JUNE . | 6 11 33 | 6 4 31 | | MAY . | 4 13 59 | 5 2 43 |
| | JULY . | 6 0 17 | 5 13 26 | | JUNE . | 3 2 43 | 3 12 36 |
| | AUG. . | 4 13 1 | 4 0 32 | | JULY . | 2 15 27 | 2 20 37 |
| | SEPT. . | 3 1 45 | 2 14 22 | | AUG. . | { 1 4 11 | 1 3 51 |
| | OCT. . | 2 14 29 | 2 6 53 | | SEPT. . | { 30 16 55 | 30 11 23 |
| | NOV. . | { 1 3 13 | 1 1 13 | | OCT. . | 29 5 39 | 28 20 8 |
| | DEC. . | { 30 15 57 | 30 20 14 | | NOV. . | 28 18 23 | 28 6 49 |
| | | 30 4 41 | 30 14 13 | | DEC. . | 27 7 7 | 26 19 50 |
| | | | | | DEC. . | 26 19 51 | 26 11 11 |
| 1663. D. 10 17 59 | JAN. . | 23 17 25 | 29 6 3 | 1666. G. 10 11 25 | JAN. . | 25 8 35 | 25 4 23 |
| | ○ | { 12 11 47 | 12 5 26 | | FEB. . | 23 21 19 | 23 22 27 |
| | FEB. . | 27 6 9 | 27 19 7 | | MAR. . | 25 10 3 | 25 16 11 |
| | MAR. . | 23 18 53 | 29 5 31 | | APRIL | 23 22 47 | 24 3 23 |
| | APRIL | 27 7 37 | 27 13 43 | | MAY . | 23 11 31 | 23 23 19 |
| | MAY . | 26 20 21 | 26 20 50 | | ○ | { 7 5 53 | 6 21 25 |
| | JUNE . | 25 9 5 | 25 3 39 | | JUNE . | { 22 0 15 | 22 9 52 |
| | JULY . | 24 21 49 | 24 11 23 | | JULY . | 21 12 59 | 21 19 29 |
| | ○ | { 8 16 11 | 8 22 35 | | AUG. . | 20 1 43 | 20 4 2 |
| | AUG. . | { 23 10 33 | 22 21 6 | | SEPT. . | 18 14 27 | 18 12 30 |
| | SEPT. . | 21 23 17 | 21 9 33 | | OCT. . | 18 3 11 | 17 21 42 |
| | OCT. . | 21 12 1 | 21 1 15 | | NOV. . | 16 15 55 | 16 8 7 |
| | NOV. . | 20 0 45 | 19 19 27 | | ○ | { 1 10 17 | 1 16 56 |
| | DEC. . | 19 13 29 | 19 14 59 | | DEC. . | { 16 4 39 | 15 20 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1667. F. March. <i>d. h. m.</i> 10 17 14 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1670. B. March. <i>d. h. m.</i> 10 10 40 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 14 17 24 | 14 9 32 | | JAN. . | 11 8 34 | 11 15 41 |
| | FEB. . | 13 6 8 | 13 0 26 | | FEB. . | 9 21 18 | 10 2 17 |
| | MAR. . | 14 18 52 | 14 16 26 | | MAR. . | { 11 10 2 | 11 11 45 |
| | APRIL | 13 7 36 | 13 8 54 | | ○ | { 26 4 24 | 26 13 35 |
| | MAY . | { 12 20 20 | 13 1 1 | | APRIL | 9 22 46 | 9 20 32 |
| | ○ | { 27 14 42 | 27 12 25 | | MAY . | 9 11 30 | 9 5 22 |
| | JUNE . | 11 9 4 | 11 16 1 | | JUNE . | 8 0 14 | 7 15 9 |
| | JULY . | 10 21 48 | 11 5 24 | | JULY . | 7 12 58 | 7 2 46 |
| | AUG. . | 9 10 32 | 9 17 10 | | AUG. . | 6 1 42 | 5 16 39 |
| | SEPT. . | 7 23 16 | 8 3 48 | | SEPT. . | { 4 14 26 | 4 8 38 |
| | OCT. . | 7 12 0 | 7 13 46 | | ○ | { 19 8 48 | 19 4 3 |
| | NOV. . | { 6 0 44 | 5 23 54 | | OCT. . | 4 3 10 | 4 2 5 |
| | ○ | { 20 19 6 | 20 17 5 | | NOV. . | 2 15 54 | 2 19 51 |
| | DEC. . | 5 13 28 | 5 10 30 | | DEC. . | { 2 4 38 | 2 12 48 |
| | | | | | | { 31 17 22 | ... |
| 1668. E.D. 9 23 3 | JAN. . | 4 2 13 | 3 21 40 | 1671. A. | JAN. . | { ... | 1 4 4 |
| | FEB. . | 2 14 57 | 2 9 25 | | FEB. . | { 30 6 7 | 30 17 11 |
| | MAR. . | 3 3 41 | 2 21 56 | | ○ | 28 18 51 | { 1 4 3 |
| | APRIL | 1 16 25 | 1 11 22 | | MAR. . | { 15 13 13 | { 15 13 33 |
| | MAY ○ | { 1 5 9 | 1 1 46 | 10 16 29 | ○ | { 30 7 35 | { 30 13 4 |
| | | { 15 23 31 | 16 5 40 | | APRIL | 28 20 19 | 28 20 51 |
| | | { 30 17 58 | 30 16 56 | | MAY . | 28 9 3 | 28 4 15 |
| | JUNE . | 29 6 37 | 29 8 19 | | JUNE . | 26 21 47 | 26 12 21 |
| | JULY . | 28 19 21 | 28 23 19 | | JULY . | 26 10 31 | 25 22 12 |
| | AUG. . | 27 8 5 | 27 13 24 | | AUG. . | 24 23 15 | 24 10 40 |
| | SEPT. . | 25 20 49 | 26 2 27 | | ○ | { 8 17 37 | 8 20 6 |
| | OCT. . | 25 9 33 | 25 14 36 | | SEPT. . | { 28 11 59 | 23 1 59 |
| | ○ | { 9 3 55 | 8 17 19 | | OCT. . | 23 0 43 | 22 19 43 |
| | NOV. . | { 23 22 17 | 24 2 8 | | NOV. . | 21 13 27 | 21 14 43 |
| | DEC. . | 23 11 1 | 23 13 14 | | DEC. . | 21 2 11 | 21 9 30 |
| 1669. C. 10 4 52 | JAN. . | 21 23 45 | 21 23 56 | 1672. G.F. | JAN. . | 19 14 55 | 20 2 36 |
| | FEB. . | 20 12 29 | 20 10 20 | | FEB. . | 18 3 39 | 18 17 3 |
| | MAR. . | 22 1 13 | 21 20 44 | | ○ | { 3 22 1 | 3 16 33 |
| | APRIL | 20 13 57 | 20 7 39 | 9 22 18 | MAR. . | { 13 16 23 | 19 4 39 |
| | MAY . | 20 2 41 | 19 19 40 | | APRIL | 17 5 7 | 17 13 46 |
| | JUNE . | 18 15 25 | 18 9 11 | | MAY . | 16 17 51 | 16 21 12 |
| | JULY . | 18 4 9 | 18 0 10 | | JUNE . | 15 6 35 | 15 3 56 |
| | AUG. . | 16 16 53 | 16 16 6 | | JULY . | 14 19 19 | 14 11 2 |
| | SEPT. . | 15 5 37 | 15 8 14 | | AUG. . | { 18 8 3 | 12 19 40 |
| | ○ | { 28 2 25 | 28 8 21 | | ○ | { 28 2 25 | 28 8 21 |
| | OCT. . | 14 18 21 | 14 23 50 | | SEPT. . | 11 20 47 | 11 6 46 |
| | NOV. . | 18 7 5 | 13 14 26 | | OCT. . | 11 9 31 | 10 20 56 |
| | DEC. . | 12 19 49 | 13 8 45 | | NOV. . | 9 22 15 | 9 14 2 |
| | | | | | DEC. . | 9 10 59 | 9 9 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1673. E. March. d. h. m. 10 4 7 | JAN. . | d. h. m. 7 28 44 | d. h. m. 8 4 44 | A.D. 1676. B.A. March. d. h. m. 9 21 33 | JAN. . | d. h. m. 5 14 54 | d. h. m. 5 6 55 |
| | FEB. . | 6 12 28 | 6 23 3 | | FEB. . | 4 3 38 | 3 20 56 |
| | MAR. . | 8 1 12 | 8 14 51 | | MAR. . | 4 16 22 | 4 12 9 |
| | APRIL | 6 18 56 | 7 3 34 | | APRIL | 3 5 6 | 3 4 11 |
| | MAY . | 6 2 40 | 6 18 25 | | MAY . | 2 17 50 | 2 20 23 |
| | JUNE . | 4 15 24 | 4 21 12 | | JUNE . | { 1 6 34 | 1 11 53 |
| | JULY . | 4 4 8 | 4 3 58 | | | { 30 19 18 | { 1 2 17 |
| | AUG. . | 2 16 52 | { 2 10 52 | | JULY . | 30 8 2 | { 30 15 0 |
| | SEPT. . | { 1 5 36 | { 31 18 57 | | AUG. . | 28 20 46 | 29 2 21 |
| | | { 30 18 20 | 30 5 8 | | SEPT. . | 27 9 30 | 27 12 50 |
| | OCT. . | 30 7 4 | 29 18 3 | | OCT. . | 26 22 14 | 26 23 6 |
| | NOV. . | 28 19 43 | 28 9 49 | | NOV. . | 25 10 58 | 25 9 31 |
| | DEC. . | 28 8 32 | 28 3 53 | | DEC. . | 24 23 42 | 24 20 27 |
| 1674. D. 10 9 56 | O | { 12 2 54 | 12 7 28 | 1677. G. 10 3 22 | JAN. . | 23 12 26 | 23 7 47 |
| | JAN. . | { 26 21 16 | 26 23 1 | | FEB. . | 22 1 10 | 21 19 40 |
| | FEB. . | 25 10 0 | 25 17 39 | | MAR. . | 23 13 54 | 23 8 19 |
| | MAR. . | 26 22 44 | 27 10 23 | | APRIL | 22 2 38 | 21 21 56 |
| | APRIL | 25 11 23 | 26 0 23 | | O | { 6 21 0 | 7 5 40 |
| | MAY . | 25 0 12 | 25 11 32 | | MAY . | { 21 15 22 | 21 12 35 |
| | JUNE . | 23 12 56 | 23 20 24 | | JUNE . | 20 4 6 | 20 3 51 |
| | O | { 8 7 18 | 7 22 53 | | JULY . | 19 16 50 | 19 19 12 |
| | JULY . | { 23 1 40 | 23 3 59 | | AUG. . | 18 5 34 | 18 9 59 |
| | AUG. . | 21 14 24 | 21 11 25 | | SEPT. . | 16 18 18 | 16 23 49 |
| | SEPT. . | 20 3 8 | 19 19 37 | | OCT. . | { 16 7 2 | 16 12 42 |
| | OCT. . | 19 15 52 | 19 5 24 | | O | { 31 1 24 | 30 13 4 |
| | NOV. . | 18 4 36 | 17 17 18 | | NOV. . | 14 19 46 | 15 0 45 |
| | DEC. . | 17 17 20 | 17 7 27 | | DEC. . | 14 8 30 | 14 12 11 |
| 1675. C. 10 15 45 | O | { 1 11 43 | 1 21 35 | 1678. F. 10 9 11 | JAN. . | 12 21 15 | 12 23 5 |
| | JAN. . | { 16 6 5 | 15 23 41 | | FEB. . | 11 9 59 | 11 9 29 |
| | FEB. . | 14 18 49 | 14 17 14 | | MAR. . | 12 22 43 | 12 19 36 |
| | MAR. . | 16 7 33 | 16 11 4 | | APRIL | { 11 11 27 | 11 5 53 |
| | APRIL | 14 20 17 | 15 3 59 | | O | { 26 5 49 | 26 18 57 |
| | MAY . | 14 9 1 | 14 19 4 | | MAY . | 11 0 11 | 10 17 1 |
| | JUNE . | { 12 21 45 | 13 7 50 | | JUNE . | 9 12 55 | 9 5 35 |
| | O | { 27 16 7 | 27 5 47 | | JULY . | 9 1 39 | 8 19 48 |
| | JULY . | 12 10 29 | 12 18 26 | | AUG. . | 7 14 23 | 7 11 24 |
| | AUG. . | 10 23 13 | 11 3 35 | | SEPT. . | 6 3 7 | 6 3 42 |
| | SEPT. . | 9 11 57 | 9 12 13 | | OCT. . | { 5 15 51 | 5 19 56 |
| | OCT. . | 9 0 41 | 8 21 11 | | O | { 20 10 13 | 19 21 53 |
| | NOV. . | 7 13 25 | 7 7 6 | | NOV. . | 4 4 35 | 4 11 23 |
| | DEC. . | { 7 2 9 | 6 13 18 | | DEC. . | 3 17 19 | 4 1 34 |
| | O | { 21 20 31 | 22 5 42 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1679. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1682. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 2 6 4 31 18 48 | 2 14 18 ... | | JAN. . | 28 9 58 | 28 18 5 |
| | FEB. . | ... | 1 1 31 | | ○ | { 12 4 20 | 12 1 26 |
| March. <i>d. h. m.</i> 10 15 0 | MAR. . | { 2 7 32 31 20 16 | 2 11 22 31 20 12 | March. <i>d. h. m.</i> 10 8 26 | FEB. . | { 26 22 42 | 27 11 12 |
| | ○ | { 15 14 38 | 16 1 10 | | MAR. . | 28 11 26 | 29 1 24 |
| | APRIL | { 30 9 0 | 30 4 40 | | APRIL | 27 0 10 | 27 12 33 |
| | MAY . | 29 21 44 | 29 13 40 | | MAY . | 26 12 54 | 26 21 12 |
| | JUNE . | 28 10 28 | 28 0 9 | | JUNE . | 25 1 38 | 25 4 21 |
| | JULY . | 27 23 12 | 27 12 49 | | JULY . | 24 14 22 | 24 11 8 |
| | AUG. . | 26 11 56 | 26 3 51 | | ○ | { 8 8 44 | 8 8 56 |
| | SEPT. . | 25 0 40 | 24 20 51 | | AUG. . | { 23 3 6 | 22 18 36 |
| | ○ | { 9 19 2 | 9 12 45 | | SEPT. . | 21 15 50 | 21 3 44 |
| | OCT. . | { 24 13 24 | 24 14 49 | | OCT. . | 21 4 34 | 20 15 19 |
| | NOV. . | 23 2 8 | 23 8 33 | | NOV. . | 19 17 18 | 19 5 42 |
| | DEC. . | 22 14 52 | 23 0 55 | | DEC. . | 19 6 2 | 18 22 42 |
| 1680. D.C. | JAN. . | 21 3 36 | 21 15 11 | 1683. G. | JAN. . | 17 18 46 | 17 17 22 |
| 9 20 49 | FEB. . | 19 16 20 | 20 3 5 | | ○ | { 1 13 8 | 1 17 8 |
| | MAR. . | 20 5 4 | 20 12 50 | 10 14 15 | FEB. . | { 16 7 30 | 16 12 18 |
| | APRIL | 18 17 48 | 18 20 58 | | MAR. . | 17 20 14 | 18 6 0 |
| | MAY . | 18 6 32 | 18 4 17 | | APRIL | 16 8 58 | 16 21 20 |
| | JUNE . | 16 19 16 | 16 11 47 | | MAY . | 15 21 42 | 16 9 50 |
| | JULY . | 16 8 0 | 15 20 34 | | JUNE . | 14 10 26 | 14 19 47 |
| | AUG. . | 14 20 44 | 14 7 39 | | JULY . | { 13 23 10 | 14 3 59 |
| | SEPT. . | 13 9 23 | 12 21 35 | | ○ | { 23 17 32 | 23 9 27 |
| | OCT. . | 12 22 12 | 12 14 21 | | AUG. . | 12 11 54 | 12 11 31 |
| | NOV. . | 11 10 56 | 11 9 2 | | SEPT. . | 11 0 38 | 10 19 23 |
| | DEC. . | 10 23 40 | 11 4 16 | | OCT. . | 10 13 22 | 10 4 48 |
| 1681. B. | JAN. . | 9 12 25 | 9 22 26 | 1684. F.R. | JAN. . | 7 3 35 | 6 19 31 |
| 10 2 38 | FEB. . | { 8 1 9 | 8 14 17 | | FEB. . | 5 16 19 | 5 12 18 |
| | ○ | { 22 19 31 | 22 13 32 | 9 20 4 | MAR. . | 6 5 3 | 6 5 53 |
| | MAR. . | 9 13 58 | 10 8 13 | | APRIL | 4 17 47 | 4 23 12 |
| | APRIL | 8 2 37 | 8 13 24 | | MAY . | 4 6 31 | 4 15 11 |
| | MAY . | 7 15 21 | 7 21 28 | | JUNE . | { 2 19 15 | 3 5 9 |
| | JUNE . | 6 4 5 | 6 4 19 | | ○ | { 17 13 37 | 17 4 34 |
| | JULY . | 5 16 49 | 5 11 5 | | JULY . | { 2 7 59 | 2 16 53 |
| | AUG. . | { 4 5 33 | 3 13 50 | | | { 31 20 43 | { 1 2 50 |
| | ○ | { 18 23 55 | 19 5 43 | | AUG. . | 30 9 27 | { 30 11 50 |
| | SEPT. . | 2 18 17 | 2 4 40 | | SEPT. . | 23 22 11 | 23 20 45 |
| | OCT. . | { 2 7 1 | 1 17 20 | | OCT. . | 23 10 55 | 23 6 20 |
| | | { 31 19 45 | 31 9 6 | | NOV. . | 26 23 39 | 26 16 57 |
| | NOV. . | 30 8 29 | 30 3 23 | | ○ | { 11 18 1 | 12 1 7 |
| | DEC. . | 29 21 13 | 29 22 57 | | DEC. . | { 26 12 23 | 26 4 43 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1685. D. March. d. h. m. 10 1 53 | | d. h. m. | d. h. m. | A.D. 1688. A.G. March. d. h. m. 9 19 19 | | d. h. m. | d. h. m. |
| | JAN. . | 25 1 8 | 24 17 59 | | JAN. . | 22 16 17 | 23 0 28 |
| | FEB. . | 23 13 52 | 23 8 22 | | FEB. . | 21 5 1 | 21 10 51 |
| | MAR. . | 25 2 36 | 24 23 45 | | MAR. . | 21 17 45 | 21 19 56 |
| | APRIL | 23 15 20 | 23 15 43 | | ○ | { 5 12 7 | 5 20 38 |
| | MAY . | 23 4 4 | 23 7 35 | | APRIL | { 20 6 29 | 20 4 17 |
| | ○ | { 6 22 26 | 6 19 51 | | MAY . | 19 19 13 | 19 12 42 |
| | JUNE . | { 21 16 48 | 21 22 35 | | JUNE . | 18 7 57 | 17 22 10 |
| | JULY . | 21 5 32 | 21 12 16 | | JULY . | 17 20 41 | 17 9 35 |
| | AUG. . | 19 18 16 | 20 0 30 | | AUG. . | 16 9 25 | 15 23 28 |
| | SEPT. . | 18 7 0 | 18 11 36 | | SEPT. . | { 14 22 9 | 14 15 42 |
| | OCT. . | 17 19 44 | 17 22 11 | | ○ | { 29 16 31 | 29 12 13 |
| | NOV. . | 16 8 28 | 16 8 41 | | OCT. . | 14 10 53 | 14 9 41 |
| | ○ | { 1 2 50 | 1 1 1 | | NOV. . | 12 23 37 | 13 3 46 |
| | DEC. . | { 15 21 12 | 15 19 27 | | DEC. . | 12 12 21 | 12 21 7 |
| 1686. C. 10 7 42 | JAN. . | 14 9 56 | 14 6 29 | 1689. F. 10 1 8 | JAN. . | 11 1 5 | 11 12 35 |
| | FEB. . | 12 22 40 | 12 17 53 | | FEB. . | 9 13 49 | 10 1 40 |
| | MAR. . | 14 11 24 | 14 5 49 | | MAR. . | { 11 2 34 | 11 12 20 |
| | APRIL | 13 0 8 | 12 18 38 | | ○ | { 25 20 56 | 25 20 43 |
| | MAY . | { 12 12 52 | 12 8 31 | | APRIL | 9 15 18 | 9 21 2 |
| | ○ | { 27 7 14 | 27 13 7 | | MAY . | 9 4 2 | 9 4 29 |
| | JUNE . | 11 1 36 | 10 23 24 | | JUNE . | 7 16 46 | 7 11 37 |
| | JULY . | 10 14 20 | 10 14 48 | | JULY . | 7 5 30 | 6 19 34 |
| | AUG. . | 9 3 4 | 9 6 5 | | AUG. . | 5 18 14 | 5 5 22 |
| | SEPT. . | 7 15 48 | 7 20 42 | | SEPT. . | { 4 6 58 | 3 17 53 |
| | OCT. . | 7 4 32 | 7 10 21 | | ○ | { 19 1 20 | 19 4 14 |
| | NOV. . | { 5 17 16 | 5 23 5 | | OCT. . | 3 19 42 | 3 9 23 |
| | ○ | { 20 11 38 | 20 1 23 | | NOV. . | 2 8 26 | 2 3 28 |
| | DEC. . | 5 6 0 | 5 10 53 | | DEC. . | { 1 21 10 | 1 22 40 |
| | | | | | | { 31 9 54 | 31 17 37 |
| 1687. B. 10 13 31 | JAN. . | 3 18 45 | 3 22 11 | 1690. E. 10 6 57 | JAN. . | 29 22 33 | 30 10 46 |
| | FEB. . | 2 7 29 | 2 8 43 | | FEB. . | 28 11 22 | { 1 1 9 |
| | MAR. . | 3 20 13 | 3 18 44 | | ○ | { 15 5 44 | { 15 0 16 |
| | APRIL | 2 8 57 | 2 4 35 | | MAR. . | { 30 0 7 | 30 12 34 |
| | MAY . | { 1 21 41 | 1 14 57 | | APRIL | 28 12 51 | 28 21 29 |
| | | { 31 10 25 | 31 2 31 | | MAY . | 28 1 35 | 28 4 43 |
| | JUNE . | 29 23 9 | 29 15 47 | | JUNE . | 26 14 19 | 26 11 22 |
| | JULY . | 29 11 53 | 29 6 45 | | JULY . | 26 3 3 | 25 18 30 |
| | AUG. . | 28 0 37 | 27 22 52 | | AUG. . | 24 15 47 | 24 3 14 |
| | SEPT. . | 26 13 21 | 26 15 34 | | ○ | { 8 10 9 | 8 15 50 |
| | OCT. . | 26 2 5 | 26 7 46 | | SEPT. . | { 23 4 31 | 22 14 23 |
| | NOV. . | 24 14 49 | 24 22 53 | | OCT. . | 22 17 15 | 22 4 47 |
| | DEC. . | 24 3 33 | 24 12 31 | | NOV. . | 21 5 59 | 20 22 0 |
| | | | | | DEC. . | 20 18 43 | 20 17 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1691. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1694. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | G. | | | |
| March. | JAN. . | 19 7 27 | 19 12 37 | | ○ | { 1 4 15 | 1 13 57 |
| <i>d. h. m.</i> | FEB. . | 17 20 11 | 18 6 50 | March. | JAN. . | { 15 22 37 | 15 15 33 |
| 10 12 46 | MAR. . | 19 8 55 | 19 22 29 | <i>d. h. m.</i> | FEB. . | 14 11 21 | 14 5 5 |
| | APRIL | 17 21 30 | 18 11 3 | 10 6 12 | MAR. . | 16 0 5 | 15 19 43 |
| | MAY . | 17 10 23 | 17 20 48 | | APRIL | 14 12 49 | 14 11 10 |
| | JUNE . | 15 23 7 | 16 4 35 | | MAY . | 14 1 33 | 14 2 59 |
| | JULY . | 15 11 51 | 15 11 27 | | JUNE . | { 12 14 17 | 12 13 27 |
| | AUG. . | 14 0 35 | 13 18 33 | | ○ | { 27 8 39 | 27 3 1 |
| | SEPT. . | 12 13 19 | 12 2 52 | | JULY . | 12 3 1 | 12 8 56 |
| | OCT. . | 12 2 3 | 11 13 16 | | AUG. . | 10 15 45 | 10 22 5 |
| | NOV. . | 10 14 47 | 10 2 18 | | SEPT. . | 9 4 29 | 9 9 58 |
| | DEC. . | 10 3 31 | 9 18 2 | | OCT. . | 8 17 13 | 8 21 2 |
| | | | | | NOV. . | 7 5 57 | 7 7 45 |
| 1692. | JAN. . | { 8 16 16 | 8 11 55 | | DEC. . | 6 18 41 | 6 18 30 |
| C.B. | ○ | { 23 10 33 | 23 16 21 | 1695. | JAN. . | 5 7 26 | 5 5 24 |
| | FEB. . | 7 5 0 | 7 6 45 | F. | FEB. . | 3 20 10 | 3 16 27 |
| 9 18 35 | MAR. . | 7 17 44 | 8 1 4 | 10 12 1 | MAR. . | 5 8 54 | 5 3 49 |
| | APRIL | 6 6 28 | 6 17 34 | | APRIL | 3 21 33 | 3 15 51 |
| | MAY . | 5 19 12 | 6 7 29 | | MAY . | { 3 10 22 | 3 4 56 |
| | JUNE . | 4 7 56 | 4 18 33 | | ○ | { 18 4 44 | 18 13 9 |
| | JULY . | { 3 20 40 | 4 3 41 | | JUNE . | 1 23 6 | 1 19 8 |
| | ○ | { 18 15 2 | 18 5 34 | | JULY . | { 1 11 50 | 1 10 18 |
| | AUG. . | { 2 9 24 | 2 11 33 | | AUG. . | { 31 0 34 | 31 1 48 |
| | SEPT. . | { 31 22 8 | 31 19 19 | | SEPT. . | 29 13 13 | 29 17 2 |
| | OCT. . | 30 10 52 | 30 3 51 | | OCT. . | 28 2 2 | 28 7 30 |
| | NOV. . | 29 23 36 | 29 13 56 | | NOV. . | { 27 14 46 | 27 20 53 |
| | DEC. . | 28 12 20 | 28 1 55 | | ○ | { 11 9 8 | 10 21 11 |
| | | 28 1 4 | 27 15 56 | | NOV. . | { 26 3 30 | 26 9 30 |
| | | | | | DEC. . | 25 16 14 | 25 21 8 |
| 1693. | ○ | { 11 19 27 | 12 6 15 | 1696. | JAN. . | 24 4 59 | 24 7 57 |
| A. | JAN. . | { 26 13 49 | 26 7 47 | E.D. | FEB. . | 22 17 43 | 22 18 2 |
| 10 0 24 | FEB. . | 25 2 33 | 25 0 51 | 9 17 50 | MAR. . | 23 6 27 | 23 3 40 |
| | MAR. . | 26 15 17 | 26 18 12 | | APRIL | 21 19 11 | 21 13 25 |
| | APRIL | 25 4 1 | 25 10 49 | | ○ | { 6 13 33 | 7 2 11 |
| | MAY . | 24 16 45 | 25 1 49 | | MAY . | { 21 7 55 | 21 0 4 |
| | JUNE . | 23 5 29 | 23 14 42 | | JUNE . | 19 20 39 | 19 12 17 |
| | ○ | { 7 23 51 | 7 12 52 | | JULY . | 19 9 23 | 19 2 21 |
| | JULY . | { 22 18 13 | 23 1 33 | | AUG. . | 17 22 7 | 17 18 6 |
| | AUG. . | 21 6 57 | 21 11 12 | | SEPT. . | 16 10 51 | 16 10 30 |
| | SEPT. . | 19 19 41 | 19 20 19 | | OCT. . | { 15 23 35 | 16 3 33 |
| | OCT. . | 19 8 25 | 19 5 42 | | ○ | { 30 17 57 | 30 6 24 |
| | NOV. . | 17 21 9 | 17 15 53 | | NOV. . | 14 12 19 | 14 19 33 |
| | DEC. . | 17 9 53 | 17 3 10 | | DEC. . | 14 1 3 | 14 10 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1697. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1700. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| C. | | | | G.F. | | | |
| March. | JAN. . | 12 13 48 | 12 23 6 | | JAN. . | 10 4 57 | 10 6 53 |
| <i>d. h. m.</i> | FEB. . | 11 2 32 | 11 10 11 | | FEB. . | 8 17 41 | 9 1 52 |
| 9 23 39 | MAR. . | 12 15 15 | 12 19 42 | March. | ○ | 23 12 3 | 23 9 54 |
| | APRIL | 11 3 59 | 11 4 7 | <i>d. h. m.</i> | MAR. . | 9 6 25 | 9 18 49 |
| | ○ | 25 22 21 | 26 7 57 | 9 17 5 | APRIL | 7 19 9 | 8 8 52 |
| | MAY . | 10 16 43 | 10 12 10 | | MAY . | 7 7 53 | 7 19 55 |
| | JUNE . | 9 5 27 | 8 20 49 | | JUNE . | 5 20 37 | 6 4 34 |
| | JULY . | 8 18 11 | 8 7 3 | | JULY . | 5 9 21 | 5 11 47 |
| | AUG. . | 7 6 55 | 6 19 38 | | AUG. . | 3 22 5 | 3 18 44 |
| | SEPT. . | 5 19 39 | 5 10 50 | | ○ | 18 16 27 | 18 15 40 |
| | OCT. . | 5 8 23 | 5 4 9 | | SEPT. . | 2 10 49 | 2 2 27 |
| | ○ | 20 2 45 | 19 21 14 | | OCT. . | 1 23 33 | 1 11 51 |
| | Nov. . | 3 21 7 | 3 22 34 | | Nov. . | 31 12 17 | 30 23 37 |
| | DEC. . | 3 9 51 | 3 16 42 | | DEC. . | 30 1 1 | 29 14 1 |
| | | | | | | 29 13 45 | 29 6 51 |
| 1698. | JAN. . | 1 22 36 | 2 9 21 | 1701. | JAN. . | 28 2 30 | 28 1 14 |
| B. | FEB. . | 31 11 20 | 31 23 41 | E. | ○ | 11 20 52 | 12 1 51 |
| | ... | ... | ... | | FEB. . | 26 15 14 | 26 19 48 |
| 10 5 28 | MAR. . | 2 0 4 | 2 11 27 | 9 22 54 | MAR. . | 28 3 58 | 28 13 12 |
| | APRIL | 31 12 48 | 31 20 55 | | APRIL | 26 16 42 | 27 4 23 |
| | MAY . | 29 14 16 | 29 11 46 | | MAY . | 26 5 26 | 26 16 53 |
| | JUNE . | 28 3 0 | 27 19 5 | | JUNE . | 24 18 10 | 25 2 58 |
| | JULY . | 27 15 44 | 27 3 48 | | JULY . | 24 6 54 | 24 11 25 |
| | AUG. . | 26 4 28 | 25 14 55 | | ○ | 8 1 16 | 7 16 11 |
| | SEPT. . | 24 17 12 | 24 4 59 | | AUG. . | 22 19 33 | 22 19 17 |
| | OCT. . | 24 5 56 | 23 21 58 | | SEPT. . | 21 8 22 | 21 3 32 |
| | Nov. . | 22 18 40 | 22 16 54 | | OCT. . | 20 21 6 | 20 12 56 |
| | DEC. . | 22 7 24 | 22 12 18 | | Nov. . | 19 9 50 | 19 0 1 |
| | | | | | DEC. . | 18 22 34 | 18 12 59 |
| 1699. | JAN. . | 20 20 9 | 21 6 34 | 1702. | JAN. . | 17 11 18 | 17 4 9 |
| A. | FEB. . | 19 8 53 | 19 22 22 | D. | FEB. . | 16 0 2 | 15 20 6 |
| | ○ | 6 3 15 | 5 21 31 | | MAR. . | 17 12 46 | 17 13 11 |
| 10 11 17 | MAR. . | 20 21 37 | 21 11 11 | 10 4 43 | APRIL | 16 1 30 | 16 6 6 |
| | APRIL | 19 10 21 | 19 21 8 | | MAY . | 15 14 14 | 15 21 53 |
| | MAY . | 18 23 5 | 19 5 1 | | JUNE . | 14 2 58 | 14 11 52 |
| | JUNE . | 17 11 49 | 17 11 47 | | JULY . | 13 15 42 | 13 23 52 |
| | JULY . | 17 0 33 | 16 18 32 | | AUG. . | 12 4 26 | 12 10 15 |
| | AUG. . | 15 13 17 | 15 2 24 | | SEPT. . | 10 17 10 | 10 19 43 |
| | ○ | 30 7 39 | 30 12 57 | | OCT. . | 10 5 54 | 10 5 6 |
| | SEPT. . | 14 2 1 | 13 12 23 | | Nov. . | 8 18 38 | 8 15 2 |
| | OCT. . | 13 14 45 | 13 1 12 | | DEC. . | 8 7 22 | 8 1 50 |
| | Nov. . | 12 3 29 | 11 17 4 | | ○ | 23 1 44 | 23 9 16 |
| | DEC. . | 11 16 13 | 11 11 24 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1703. C. March. d. h. m. 10 10 32 | | d. h. m. | d. h. m. | A.D. 1706. F. March. d. h. m. 10 8 58 | | d. h. m. | d. h. m. |
| | JAN. . | 6 20 7 | 6 13 36 | | JAN. . | 3 11 16 | 3 21 14 |
| | FEB. . | 5 8 51 | 5 2 21 | | FEB. . | 2 0 0 | 2 9 10 |
| | MAR. . | 6 21 35 | 6 16 10 | | MAR. . | 3 12 45 | 3 19 19 |
| | APRIL . | 5 10 19 | 5 6 57 | | APRIL . | { 2 1 29 | 2 4 1 |
| | MAY . | 4 23 3 | 4 22 26 | | ○ | { 16 19 51 | 17 3 36 |
| | JUNE . | { 3 11 47 | 3 14 3 | | MAY . | { 1 14 13 | 1 11 56 |
| | ○ | { 18 6 9 | 18 3 17 | | ○ | { 81 2 57 | 30 19 59 |
| | JULY . | 3 0 31 | 3 5 8 | | JUNE . | 29 15 41 | 29 5 12 |
| | AUG. . | { 1 13 15 | 1 19 7 | | JULY . | 29 4 25 | 28 16 30 |
| | SEPT. . | { 31 1 59 | 31 7 52 | | AUG. . | 27 17 9 | 27 6 25 |
| | OCT. . | 29 14 43 | 29 19 35 | | SEPT. . | 26 5 53 | 25 22 55 |
| | NOV. . | 29 3 27 | 29 6 41 | | ○ | { 11 0 15 | 10 20 42 |
| | ○ | 27 16 11 | 27 17 31 | | OCT. . | { 25 18 37 | 25 17 8 |
| | DEC. . | { 12 10 33 | 12 8 57 | | NOV. . | 24 7 21 | 24 11 46 |
| | | { 27 4 55 | 27 4 25 | | DEC. . | 23 20 5 | 24 5 26 |
| 1704. B.A. 9 16 21 | JAN. . | 25 17 40 | 25 15 18 | 1707. E. 10 9 47 | JAN. . | 22 8 49 | 22 21 2 |
| | FEB. . | 24 6 24 | 24 2 16 | | FEB. . | 20 21 33 | 21 10 2 |
| | MAR. . | 24 19 8 | 24 13 36 | | MAR. . | 22 10 18 | 22 20 30 |
| | APRIL . | 23 7 52 | 23 1 49 | | ○ | { 6 4 40 | 6 3 49 |
| | MAY . | 22 20 36 | 22 15 14 | | APRIL . | { 20 23 2 | 21 4 52 |
| | ○ | { 6 14 58 | 6 20 34 | | MAY . | 20 11 46 | 20 12 2 |
| | JUNE . | { 21 9 20 | 21 5 52 | | JUNE . | 19 0 30 | 18 19 1 |
| | JULY . | 20 22 4 | 20 21 19 | | JULY . | 18 13 14 | 18 2 51 |
| | AUG. . | 19 10 48 | 19 12 56 | | AUG. . | 17 1 58 | 16 12 40 |
| | SEPT. . | 17 23 32 | 18 4 6 | | SEPT. . | { 15 14 42 | 15 1 17 |
| | OCT. . | 17 12 16 | 17 18 24 | | ○ | { 30 9 4 | 30 12 22 |
| | NOV. . | { 16 1 0 | 16 7 39 | | OCT. . | 15 3 26 | 14 16 58 |
| | ○ | { 30 19 22 | 30 9 34 | | NOV. . | 13 16 10 | 13 11 10 |
| | DEC. . | 15 13 44 | 15 19 52 | | DEC. . | 18 4 54 | 13 6 33 |
| 1705. G. 9 22 10 | JAN. . | 14 2 28 | 14 7 6 | 1708. D.C. 9 15 36 | JAN. . | 11 17 38 | 12 1 42 |
| | FEB. . | 12 15 12 | 12 17 24 | | FEB. . | 10 6 22 | 10 18 49 |
| | MAR. . | 14 3 56 | 14 2 58 | | MAR. . | { 10 19 6 | 11 9 6 |
| | APRIL . | 12 16 40 | 12 12 19 | | ○ | { 25 18 23 | 26 7 53 |
| | MAY . | 12 5 24 | 11 22 10 | | APRIL . | 9 7 50 | 9 20 19 |
| | JUNE . | 10 18 8 | 10 9 20 | | MAY . | 8 20 34 | 9 5 2 |
| | JULY . | 10 6 52 | 9 22 23 | | JUNE . | 7 9 18 | 7 12 11 |
| | AUG. . | 8 19 36 | 8 13 23 | | JULY . | 6 22 2 | 6 13 43 |
| | SEPT. . | 7 8 20 | 7 5 53 | | AUG. . | 5 10 46 | 5 2 2 |
| | OCT. . | 6 21 4 | 6 23 2 | | SEPT. . | { 3 23 30 | 3 10 55 |
| | NOV. . | 5 9 48 | 5 15 47 | | ○ | { 18 17 52 | 18 23 24 |
| | DEC. . | 4 22 32 | 5 7 22 | | OCT. . | 3 12 14 | 2 22 20 |
| | | | | | NOV. . | 2 0 53 | 1 12 46 |
| | | | | | DEC. . | { 1 18 42 | 1 6 1 |
| | | | | | | { 31 2 26 | 31 1 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1709. B. March. d. h. m. 9 21 25 | | d. h. m. | d. h. m. | A.D. 1712. F.E. March. d. h. m. 9 14 52 | | d. h. m. | d. h. m. |
| | JAN. . | 29 15 11 | 29 20 27 | | ○ | { 12 11 59 | 12 22 10 |
| | FEB. . | 28 3 55 | 28 14 29 | | JAN. . | { 27 6 21 | 27 0 8 |
| | MAR. . | 29 16 39 | 30 5 57 | | FEB. . | 25 19 5 | 25 13 9 |
| | APRIL | 28 5 23 | 28 18 24 | | MAR. . | 26 7 49 | 26 3 9 |
| | MAY . | 27 18 7 | 28 4 8 | | APRIL | 24 20 33 | 24 18 4 |
| | JUNE . | 26 6 51 | 26 11 58 | | MAY . | 24 9 17 | 24 9 32 |
| | JULY . | 25 19 35 | 25 19 0 | | JUNE . | 22 22 1 | 23 0 55 |
| | AUG. . | 24 8 19 | 24 2 21 | | ○ | { 7 16 23 | 7 10 26 |
| | SEPT. . | 22 21 3 | 22 10 56 | | JULY . | { 22 10 45 | 22 15 88 |
| | OCT. . | 22 9 47 | 21 21 35 | | AUG. . | 20 23 29 | 21 5 15 |
| | NOV. . | 20 22 31 | 20 10 42 | | SEPT. . | 19 12 13 | 19 17 44 |
| | DEC. . | 20 11 15 | 20 2 20 | | OCT. . | 19 0 57 | 19 5 22 |
| | | | | | NOV. . | 17 13 41 | 17 16 32 |
| | | | | | DEC. . | 17 2 25 | 17 3 29 |
| 1710. A. | JAN. . | 19 0 0 | 18 19 55 | 1713. D. | JAN. . | 15 15 10 | 15 14 18 |
| | ○ | { 2 18 22 | 3 1 6 | | FEB. . | 14 3 54 | 14 1 0 |
| 10 3 14 | FEB. . | { 17 12 44 | 17 14 22 | 9 20 40 | MAR. . | 15 16 38 | 15 11 51 |
| | MAR. . | 19 1 28 | 19 8 21 | | APRIL | 14 5 22 | 13 23 17 |
| | APRIL | 17 14 12 | 18 0 38 | | MAY . | { 13 18 6 | 13 11 49 |
| | MAY . | 17 2 56 | 17 14 27 | | ○ | { 23 12 28 | 23 20 85 |
| | JUNE . | 15 15 40 | 16 1 43 | | JUNE . | 12 6 50 | 12 1 41 |
| | JULY . | { 15 4 24 | 15 10 59 | | JULY . | 11 19 34 | 11 16 45 |
| | ○ | { 29 22 46 | 29 12 19 | | AUG. . | 10 8 18 | 10 8 30 |
| | AUG. . | 13 17 8 | 13 19 12 | | SEPT. . | 8 21 2 | 9 0 14 |
| | SEPT. . | 12 5 52 | 12 3 20 | | OCT. . | 8 9 46 | 8 15 17 |
| | OCT. . | 11 18 36 | 11 12 15 | | NOV. . | { 6 22 30 | 7 5 21 |
| | NOV. . | 10 7 20 | 9 22 35 | | ○ | { 21 16 52 | 21 5 26 |
| | DEC. . | 9 20 4 | 9 10 37 | | DEC. . | 6 11 14 | 6 18 16 |
| 1711. G. | JAN. . | { 8 8 48 | 8 0 25 | 1714. C. | JAN. . | 4 23 58 | 5 6 8 |
| | ○ | { 23 3 10 | 23 14 51 | | FEB. . | 3 12 42 | 3 16 44 |
| 10 9 3 | FEB. . | 6 21 32 | 6 15 50 | 10 2 29 | MAR. . | 5 1 26 | 5 2 27 |
| | MAR. . | 8 10 16 | 8 8 20 | | APRIL | 3 14 10 | 3 11 35 |
| | APRIL | 6 23 0 | 7 1 13 | | MAY . | { 3 2 54 | 2 20 51 |
| | MAY . | 6 11 44 | 6 17 32 | | ○ | { 17 21 16 | 18 9 13 |
| | JUNE . | 5 0 28 | 5 8 27 | | JUNE . | 1 15 33 | { 1 7 2 |
| | JULY . | { 4 13 12 | 4 21 32 | | JULY . | { 1 4 22 | { 30 18 53 |
| | ○ | { 19 7 34 | 18 20 0 | | | { 30 17 6 | 30 9 0 |
| | AUG. . | 3 1 56 | 3 8 50 | | AUG. . | 29 5 50 | 29 0 56 |
| | SEPT. . | 1 14 40 | 1 18 54 | | SEPT. . | 27 18 34 | 27 18 5 |
| | OCT. . | { 1 3 24 | 1 4 30 | | OCT. . | 27 7 18 | 27 11 25 |
| | | { 30 16 8 | 30 14 19 | | ○ | { 11 1 40 | 10 14 53 |
| | NOV. . | 29 4 52 | 29 0 47 | | NOV. . | { 25 20 2 | 26 3 56 |
| | DEC. . | 28 17 36 | 28 12 1 | | DEC. . | 25 8 46 | 25 18 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1715. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1718. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 23 21 31 | 24 7 48 | | JAN. . | 20 12 41 | 20 14 46 |
| <i>d. h. m.</i> | FEB. . | 22 10 15 | 22 18 44 | | FEB. . | 19 1 25 | 19 9 33 |
| 10 8 18 | MAR. . | 23 22 59 | 24 3 54 | March. | ○ | { 5 19 47 | 5 18 15 |
| | APRIL | 22 11 43 | 22 11 55 | <i>d. h. m.</i> | MAR. . | { 20 14 9 | 21 2 19 |
| | ○ | { 7 6 5 | 7 14 45 | 10 1 44 | APRIL | 19 2 53 | 19 16 13 |
| | MAY . | { 22 0 27 | 21 19 36 | | MAY . | 18 15 37 | 19 3 12 |
| | JUNE . | 20 13 11 | 20 3 58 | | JUNE . | 17 4 21 | 17 11 53 |
| | JULY . | 20 1 55 | 19 14 3 | | JULY . | 16 17 5 | 16 19 52 |
| | AUG. . | 18 14 39 | 18 2 39 | | AUG. . | { 15 5 49 | 15 2 27 |
| | SEPT. . | 17 3 23 | 16 17 59 | | ○ | { 30 0 11 | 29 22 33 |
| | OCT. . | { 16 16 7 | 16 11 37 | | SEPT. . | 13 18 33 | 13 10 27 |
| | ○ | { 31 10 29 | 31 5 53 | | OCT. . | 13 7 17 | 12 20 8 |
| | Nov. . | 15 4 51 | 15 6 23 | | Nov. . | 11 20 1 | 11 8 3 |
| | DEC. . | 14 17 35 | 15 0 53 | | DEC. . | 11 8 45 | 10 22 26 |
| 1716. | JAN. . | 13 6 19 | 13 17 43 | 1719. | JAN. . | 9 21 29 | 9 15 1 |
| A.G. | FEB. . | 11 19 3 | 12 8 3 | D. | FEB. . | { 8 10 13 | 8 8 59 |
| 9 14 7 | MAR. . | 12 7 47 | 12 19 37 | | ○ | { 23 4 35 | 23 10 24 |
| | APRIL | 10 20 31 | 11 4 49 | 10 7 33 | MAR. . | 9 22 57 | 10 3 10 |
| | MAY . | 10 9 15 | 10 12 21 | | APRIL | 8 11 41 | 8 20 16 |
| | JUNE . | 8 21 59 | 8 19 11 | | MAY . | 8 0 25 | 8 11 13 |
| | JULY . | 8 10 43 | 8 2 25 | | JUNE . | 6 13 9 | 6 23 49 |
| | AUG. . | 6 23 27 | 6 11 7 | | JULY . | 6 1 53 | 6 10 7 |
| | SEPT. . | 5 12 11 | 4 22 18 | | AUG. . | { 4 14 37 | 4 18 53 |
| | OCT. . | 5 0 55 | 4 12 33 | | ○ | { 19 8 59 | 18 23 3 |
| | Nov. . | 3 13 39 | 3 5 41 | | SEPT. . | 3 3 21 | 3 3 9 |
| | DEC. . | 3 2 23 | 3 0 47 | | OCT. . | 2 16 5 | { 2 11 49 |
| 1717. | JAN. . | { 1 15 8 | 1 20 20 | | Nov. . | { 1 4 49 | { 31 21 32 |
| F. | FEB. . | { 31 3 52 | 31 14 33 | | DEC. . | { 30 17 33 | 30 8 46 |
| | | ... | ... | | | 30 6 17 | 29 21 37 |
| | | { 1 16 36 | 2 6 17 | | | | |
| 9 19 56 | MAR. ○ | { 16 10 53 | 16 5 23 | 1720. | JAN. . | 28 19 2 | 28 12 4 |
| | | { 31 5 20 | 31 13 56 | C.B. | FEB. . | 27 7 46 | 27 3 50 |
| | APRIL | 29 13 4 | 30 4 44 | 9 13 22 | MAR. . | 27 20 30 | 27 20 21 |
| | MAY . | 29 6 48 | 29 12 29 | | APRIL | 26 9 14 | 26 12 52 |
| | JUNE . | 27 19 32 | 27 19 13 | | MAY . | 25 21 58 | 26 4 29 |
| | JULY . | 27 8 16 | 27 2 4 | | JUNE . | 24 10 42 | 24 18 34 |
| | AUG. . | 25 21 0 | 25 10 8 | | JULY . | 23 23 26 | 24 6 53 |
| | ○ | { 9 15 22 | 9 20 17 | | AUG. . | 22 12 10 | 22 17 44 |
| | SEPT. . | { 24 9 44 | 23 20 13 | | SEPT. . | 21 0 54 | 21 3 44 |
| | OCT. . | 23 22 23 | 23 9 12 | | OCT. . | 20 13 38 | 20 13 37 |
| | Nov. . | 22 11 12 | 22 1 8 | | Nov. . | 19 2 22 | 18 23 53 |
| | DEC. . | 21 23 56 | 21 19 23 | | DEC. . | 18 15 6 | 18 10 46 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1721. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1724. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | ○ | { 2 9 28 | 2 17 24 | E.D. | JAN. . | 14 19 0 | 15 5 55 |
| March. | JAN. . | { 17 3 51 | 16 22 21 | March. | FEB. . | 13 7 44 | 13 17 46 |
| <i>d. h. m.</i> | FEB. . | 15 16 35 | 15 10 40 | <i>d. h. m.</i> | MAR. . | 13 20 29 | 14 3 38 |
| 9 19 11 | MAR. . | 17 5 19 | 16 23 52 | | APRIL | { 12 9 13 | 12 11 58 |
| | APRIL | 15 18 3 | 15 14 3 | ○ | ○ | { 27 3 35 | 27 10 24 |
| | MAY . | 15 6 47 | 15 5 4 | | MAY . | 11 21 57 | 11 19 31 |
| | JUNE . | { 13 19 31 | 13 20 29 | | JUNE . | 10 10 41 | 10 3 16 |
| | ○ | { 28 13 53 | 28 10 43 | | JULY . | 9 23 25 | 9 12 17 |
| | JULY . | 13 8 15 | 13 11 41 | | AUG. . | 8 12 9 | 7 23 32 |
| | AUG. . | 11 20 59 | 12 2 5 | | SEPT. . | 7 0 53 | 6 13 34 |
| | SEPT. . | 10 9 43 | 10 15 24 | | OCT. . | { 6 13 37 | 6 6 17 |
| | OCT. . | 9 22 27 | 10 3 42 | ○ | ○ | { 21 7 59 | 21 5 15 |
| | NOV. . | 8 11 11 | 8 15 19 | | NOV. . | 5 2 21 | 5 0 49 |
| | DEC. . | { 7 23 55 | 8 2 31 | | DEC. . | 4 15 5 | 4 19 48 |
| | ○ | { 22 18 17 | 22 16 55 | | | | |
| 1722. | JAN. . | 6 12 39 | 6 13 28 | 1725. | JAN. . | 3 3 50 | 3 13 44 |
| G. | FEB. . | 5 1 23 | 4 23 59 | C. | FEB. . | 1 16 34 | 2 5 25 |
| 10 1 0 | MAR. . | 6 14 7 | 6 10 29 | 9 18 26 | MAR. . | 3 5 17 | 3 18 15 |
| | APRIL | 5 2 51 | 4 21 16 | | APRIL | { 1 18 1 | 2 4 28 |
| | MAY . | 4 15 35 | 4 3 55 | ○ | ○ | { 16 12 23 | 16 10 48 |
| | JUNE . | { 3 4 19 | 2 21 53 | | MAY . | { 1 6 45 | 1 12 35 |
| | ○ | { 17 22 41 | 18 3 57 | | JUNE . | { 30 19 29 | 30 19 33 |
| | JULY . | 2 17 3 | 2 12 20 | | JULY . | 29 8 13 | 29 2 22 |
| | AUG. . | { 1 5 47 | 1 3 52 | | AUG. . | 28 20 57 | 23 10 12 |
| | ○ | { 30 18 31 | 30 19 53 | | SEPT. . | 27 9 41 | 26 20 5 |
| | SEPT. . | 29 7 15 | 29 11 37 | | ○ | { 25 22 25 | 25 8 50 |
| | OCT. . | 28 19 59 | 29 2 31 | | OCT. . | { 10 16 47 | 10 20 35 |
| | NOV. . | 27 8 43 | 27 16 16 | | NOV. . | { 25 11 9 | 25 0 41 |
| | ○ | { 12 3 5 | 11 17 47 | | DEC. . | 23 23 53 | 23 19 2 |
| | DEC. . | { 26 21 27 | 27 4 44 | | | 23 12 37 | 23 14 36 |
| 1723. | JAN. . | 25 10 12 | 25 15 57 | 1726. | JAN. . | 22 1 22 | 22 9 42 |
| F. | FEB. . | 23 22 56 | 24 1 57 | B. | FEB. . | 20 14 6 | 21 2 46 |
| 10 6 49 | MAR. . | 25 11 40 | 25 11 5 | 10 0 15 | MAR. . | 22 2 50 | 22 16 53 |
| | APRIL | 24 0 24 | 23 19 57 | | ○ | { 5 21 12 | 5 15 23 |
| | MAY . | 23 13 8 | 23 5 20 | | APRIL | { 20 15 34 | 21 3 56 |
| | JUNE . | 22 1 52 | 21 16 10 | | MAY . | 20 4 18 | 20 12 32 |
| | JULY . | 21 14 36 | 21 5 3 | | JUNE . | 18 17 2 | 18 19 37 |
| | AUG. . | 20 3 20 | 19 20 10 | | JULY . | 18 5 46 | 18 2 18 |
| | SEPT. . | 18 16 4 | 18 12 59 | | AUG. . | 16 18 30 | 16 9 41 |
| | OCT. . | 18 4 48 | 18 6 36 | | SEPT. . | { 15 7 14 | 14 18 46 |
| | NOV. . | 16 17 32 | 16 23 54 | ○ | ○ | { 30 1 36 | 30 7 7 |
| | DEC. . | 16 6 16 | 16 15 52 | | OCT. . | 14 19 58 | 14 6 22 |
| | | | | | NOV. . | 13 8 42 | 12 20 55 |
| | | | | | DEC. . | 12 21 26 | 12 14 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1727. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1730. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 11 10 11 | 11 9 3 | D. | JAN. . | { 8 1 20 | 7 20 55 |
| <i>d. h. m.</i> | FEB. . | 9 22 55 | 10 4 12 | March. | ○ | { 22 19 42 | 23 6 18 |
| 10 6 4 | MAR. . | 11 11 39 | 11 21 59 | <i>d. h. m.</i> | FEB. . | 6 14 4 | 6 8 38 |
| | APRIL | 10 0 23 | 10 13 16 | 9 23 30 | MAR. . | 8 2 48 | 7 21 6 |
| | MAY . | 9 13 7 | 10 1 38 | | APRIL | 6 15 32 | 6 10 28 |
| | JUNE . | 8 1 51 | 8 11 23 | | MAY . | 6 4 16 | 6 0 50 |
| | JULY . | 7 14 35 | 7 19 21 | | JUNE . | 4 17 0 | 4 15 59 |
| | AUG. . | 6 3 19 | 6 2 36 | | JULY . | { 4 5 44 | 4 7 22 |
| | SEPT. . | 4 16 8 | 4 10 15 | | ○ | { 19 0 6 | 18 17 53 |
| | OCT. . | 4 4 47 | 3 19 11 | | AUG. . | 2 18 28 | 2 22 22 |
| | NOV. . | 2 17 31 | 2 6 2 | | | { 1 7 12 | 1 12 29 |
| | DEC. . | { 2 6 15 | 1 19 12 | | SEPT. . | { 30 19 56 | { 1 1 35 |
| | | { 31 18 59 | 31 10 40 | | OCT. . | 30 8 40 | { 30 13 47 |
| 1728. | JAN. . | 30 7 43 | 30 3 53 | 1731. | JAN. . | 26 22 53 | 26 23 7 |
| G.F. | ○ | { 14 2 5 | 14 9 44 | C. | FEB. . | 25 11 37 | 25 9 27 |
| 9 11 53 | FEB. . | { 28 20 27 | 28 21 53 | 10 5 19 | MAR. . | 27 0 21 | 26 19 45 |
| | MAR. . | 29 9 11 | 29 15 28 | | APRIL | 25 13 5 | 25 6 36 |
| | APRIL | 27 21 55 | 28 7 31 | | MAY . | 25 1 49 | 24 18 37 |
| | MAY . | 27 10 39 | 27 21 17 | | ○ | { 8 20 11 | 9 3 56 |
| | JUNE . | 25 23 23 | 26 8 43 | | JUNE . | { 23 14 33 | 23 8 12 |
| | JULY . | 25 12 7 | 25 18 18 | | JULY . | 23 8 17 | 22 23 16 |
| | ○ | { 9 6 29 | 8 19 11 | | AUG. . | 21 16 1 | 21 15 17 |
| | AUG. . | { 24 0 51 | 24 2 54 | | SEPT. . | 20 4 45 | 20 7 29 |
| | SEPT. . | 22 13 35 | 22 11 28 | | OCT. . | 19 17 29 | 19 23 10 |
| | OCT. . | 22 2 19 | 21 20 43 | | NOV. . | 18 6 13 | 18 13 47 |
| | NOV. . | 20 15 3 | 20 7 21 | | ○ | { 8 0 35 | 2 13 45 |
| | DEC. . | 20 3 47 | 19 19 22 | | DEC. . | { 17 18 57 | 18 3 4 |
| 1729. | JAN. . | 18 16 32 | 18 8 54 | 1732. | JAN. . | 16 7 42 | 16 14 55 |
| E. | ○ | { 2 10 54 | 2 23 19 | B.A. | FEB. . | 14 20 26 | 15 1 24 |
| 9 17 42 | FEB. . | { 17 5 16 | 16 23 43 | 9 11 8 | MAR. . | 15 9 10 | 15 10 45 |
| | MAR. . | 18 18 0 | 18 15 44 | | APRIL | 13 21 54 | 13 19 24 |
| | APRIL | 17 6 44 | 17 8 6 | | MAY . | { 13 10 38 | 13 4 12 |
| | MAY . | 16 19 28 | 17 0 8 | | ○ | { 28 5 0 | 28 16 20 |
| | JUNE . | 15 8 12 | 15 14 52 | | JUNE . | 11 23 22 | 11 14 1 |
| | JULY . | { 14 20 56 | 15 4 22 | | JULY . | 11 12 6 | 11 1 43 |
| | ○ | { 29 15 18 | 29 3 14 | | AUG. . | 10 0 50 | 9 15 45 |
| | AUG. . | 13 9 40 | 13 16 6 | | SEPT. . | 8 13 34 | 8 7 57 |
| | SEPT. . | 11 22 24 | 12 2 43 | | OCT. . | 8 2 13 | 8 1 29 |
| | OCT. . | 11 11 8 | 11 12 51 | | NOV. . | { 6 15 2 | 6 19 19 |
| | NOV. . | 9 23 52 | 9 23 5 | | ○ | { 21 9 24 | 20 23 39 |
| | DEC. . | 9 12 36 | 9 9 44 | | DEC. . | 6 3 46 | 6 12 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1733. G. March. d. h. m. 9 16 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1736. D.C. March. d. h. m. 9 10 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 4 16 30 | 5 3 28 | | JAN. . | { 2 7 40 31 20 24 | 2 3 28 31 22 34 |
| | FEB. . | 3 5 14 | 3 16 24 | | FEB. . | ... | ... |
| | MAR. . | 4 17 58 | 5 3 6 | | MAR. ○ | { 1 9 8 16 3 30 30 21 52 | 1 17 3 16 2 28 31 9 36 |
| | APRIL | 3 6 42 | 3 11 57 | | APRIL | 29 10 36 | 29 23 23 |
| | MAY . | { 2 19 26 17 13 43 | 2 19 37 17 21 25 | | MAY . | 28 23 20 | 29 10 21 |
| | JUNE . | { 1 8 10 30 20 54 | 1 2 59 30 11 7 | | JUNE . | 27 12 4 | 27 19 9 |
| | JULY . | 30 9 38 | 29 21 6 | | JULY . | 27 0 48 | 27 2 45 |
| | AUG. . | 28 22 22 | 28 9 45 | | AUG. . | 25 13 32 | 25 10 14 |
| | SEPT. . | 27 11 6 | 27 1 17 | | ○ | { 9 7 54 24 2 16 | 9 5 32 23 18 36 |
| | OCT. . | 26 23 50 | 26 19 12 | | SEPT. . | 23 15 0 | 23 4 33 |
| | ○ | { 10 18 12 25 12 34 | 10 14 38 25 14 18 | | NOV. . | 22 3 44 | 21 16 36 |
| | NOV. . | 25 1 18 | 25 9 2 | | DEC. . | 21 16 28 | 21 6 53 |
| | DEC. . | 25 1 18 | 25 9 2 | | | | |
| 1734. F. 9 22 46 | JAN. . | 23 14 3 | 24 2 1 | 1737. B. 9 16 11 | JAN. . | 20 5 13 | 19 23 9 |
| | FEB. . | 22 2 47 | 22 16 16 | | FEB. . | 18 17 57 | 18 16 41 |
| | MAR. . | 23 15 31 | 24 3 40 | | ○ | { 5 12 19 20 6 41 | 5 18 50 20 10 24 |
| | APRIL | 22 4 15 | 22 12 36 | | MAR. . | 18 19 25 | 19 3 11 |
| | MAY . | 21 16 59 | 21 19 55 | | APRIL | 18 8 9 | 18 18 5 |
| | JUNE . | 20 5 43 | 20 2 37 | | MAY . | 16 20 53 | 17 6 43 |
| | JULY . | 19 18 27 | 19 9 47 | | JUNE . | 16 9 37 | 16 17 17 |
| | AUG. . | 18 7 11 | 17 18 34 | | JULY . | { 14 22 21 29 16 43 | 15 2 26 29 6 2 |
| | SEPT. . | 16 19 55 | 16 5 53 | | ○ | 13 11 5 | 13 11 10 |
| | OCT. . | 16 8 39 | 15 20 16 | | SEPT. . | 12 23 49 | 12 20 15 |
| | NOV. . | 14 21 23 | 14 13 34 | | OCT. . | 11 12 33 | 11 6 17 |
| | DEC. . | 14 10 7 | 14 8 45 | | NOV. . | 11 1 17 | 10 17 36 |
| | | | | | DEC. . | | |
| 1735. E. 10 4 35 | JAN. . | 12 22 51 | 13 4 17 | 1738. A. 9 22 0 | JAN. . | 9 14 1 | 9 6 16 |
| | FEB. . | 11 11 36 | 11 22 29 | | FEB. . | 8 2 45 | 7 20 16 |
| | MAR. . | { 13 0 20 27 18 42 | 13 14 5 27 13 8 | | MAR. . | 9 15 30 | 9 11 28 |
| | ○ | 27 18 42 | 27 13 8 | | APRIL | 8 4 14 | 8 3 25 |
| | APRIL | 11 13 4 | 12 2 33 | | MAY . | 7 16 58 | 7 19 32 |
| | MAY . | 11 1 48 | 11 12 13 | | JUNE . | 6 5 42 | 6 11 1 |
| | JUNE . | 9 14 32 | 9 19 55 | | JULY . | 5 18 26 | 6 1 16 |
| | JULY . | 9 3 16 | 9 2 40 | | AUG. . | 4 7 10 | 4 13 58 |
| | AUG. . | 7 16 0 | 7 9 39 | | SEPT. . | 2 19 54 | 3 1 19 |
| | SEPT. . | { 6 4 44 20 23 6 | 5 17 53 21 3 43 | | ○ | { 2 8 33 31 21 22 | 2 11 53 31 22 16 |
| | ○ | 20 23 6 | 21 3 43 | | NOV. . | 30 10 6 | 30 8 49 |
| | OCT. . | 5 17 28 | 5 4 16 | | DEC. . | 29 22 50 | 29 19 42 |
| | NOV. . | 4 6 12 | 3 17 23 | | | | |
| | DEC. . | 3 18 56 | 3 9 19 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|------------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1739. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1742. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | ○ | { 13 17 12 | 14 1 23 | G. | JAN. . | 25 2 44 | 25 14 29 |
| March. | JAN. . | { 28 11 34 | 28 7 2 | March. | FEB. . | 23 15 28 | 24 2 13 |
| <i>d. h. m.</i> | FEB. . | 27 0 18 | 26 18 51 | <i>d. h. m.</i> | MAR. . | 25 4 12 | 25 11 47 |
| 10 3 49 | MAR. . | 28 18 2 | 28 7 27 | 9 21 16 | APRIL | 23 16 56 | 23 19 46 |
| | APRIL | 27 1 46 | 26 21 1 | ○ | { 8 11 18 | 8 17 5 | |
| | MAY . | 26 14 30 | 26 11 38 | MAY . | { 23 5 40 | 23 8 1 | |
| | JUNE . | 25 3 14 | 25 2 55 | JUNE . | 21 18 24 | 21 10 31 | |
| | ○ | { 9 21 36 | 9 18 9 | JULY . | 21 7 8 | 20 19 25 | |
| | JULY . | { 24 15 58 | 24 18 16 | AUG. . | 19 19 52 | 19 6 40 | |
| | AUG. . | 23 4 42 | 23 9 5 | SEPT. . | 18 8 36 | 17 20 50 | |
| | SEPT. . | 21 17 26 | 21 22 59 | OCT. . | 17 21 20 | 17 13 47 | |
| | OCT. . | 21 6 10 | 21 11 55 | ○ | { 1 15 42 | 1 13 54 | |
| | NOV. . | 19 18 54 | 20 0 1 | NOV. . | { 16 10 4 | 16 8 36 | |
| | DEC. . | 19 7 38 | 19 11 27 | DEC. . | 15 22 48 | 16 3 51 | |
| | ○ | { 3 2 0 | 3 0 53 | 1743. | JAN. . | 14 11 33 | 14 21 56 |
| 1740. | JAN. . | { 17 20 22 | 17 22 16 | B. | FEB. . | 18 0 17 | 18 13 36 |
| F.E. | FEB. . | 16 9 6 | 16 8 35 | 10 3 4 | MAR. . | 14 13 1 | 15 2 19 |
| 9 9 33 | MAR. . | 16 21 51 | 16 18 37 | | APRIL | { 13 1 45 | 13 12 18 |
| | APRIL | 15 10 35 | 15 4 51 | ○ | { 27 20 7 | 27 17 38 | |
| | MAY . | 14 23 19 | 14 15 57 | MAY . | 12 14 29 | 12 20 12 | |
| | JUNE . | { 13 12 3 | 13 4 34 | JUNE . | 11 3 13 | 11 3 0 | |
| | ○ | { 28 6 25 | 28 11 19 | JULY . | 10 15 57 | 10 9 47 | |
| | JULY . | 13 0 47 | 12 18 50 | AUG. . | 9 4 41 | 8 17 40 | |
| | AUG. . | 11 13 31 | 11 10 33 | SEPT. . | 7 17 25 | 7 3 41 | |
| | SEPT. . | 10 2 15 | 10 2 53 | OCT. . | { 7 6 9 | 6 16 35 | |
| | OCT. . | 9 14 59 | 9 19 16 | ○ | { 22 0 31 | 22 4 57 | |
| | NOV. . | 8 3 43 | 8 10 45 | NOV. . | 5 13 53 | 5 3 33 | |
| | DEC. . | { 7 16 27 | 8 0 55 | DEC. . | 5 7 37 | 5 3 1 | |
| | ○ | { 22 10 49 | 22 2 5 | 1744. | JAN. . | 3 20 21 | 3 22 34 |
| 1741. | JAN. . | 6 5 11 | 6 13 35 | A.G. | FEB. . | 2 9 5 | 2 17 35 |
| D. | FEB. . | 4 17 55 | 5 0 40 | 9 8 53 | MAR. . | 2 21 49 | 3 10 30 |
| 9 15 27 | MAR. . | 6 6 40 | 6 10 23 | | 1 10 33 | 2 0 23 | |
| | APRIL | 4 19 24 | 4 19 8 | APRIL ○ | { 16 4 55 | 15 22 47 | |
| | MAY . | 4 8 8 | 4 3 29 | { 80 23 17 | { 1 11 25 | | |
| | JUNE . | 2 20 52 | 2 12 29 | 80 12 1 | { 30 19 56 | | |
| | JULY . | { 2 9 36 | 1 23 2 | JUNE . | 29 0 45 | 29 3 1 | |
| | { 31 22 20 | 31 11 51 | | JULY . | 23 13 29 | 23 9 51 | |
| | AUG. . | 30 11 4 | 30 3 4 | AUG. . | 27 2 13 | 26 17 26 | |
| | SEPT. . | 28 23 43 | 28 20 13 | SEPT. . | 25 14 57 | 25 2 46 | |
| | OCT. . | 28 12 32 | 28 14 13 | ○ | { 10 9 19 | 10 14 55 | |
| | NOV. . | 27 1 16 | 27 3 3 | OCT. . | { 23 3 41 | 24 14 34 | |
| | DEC. . | 26 14 0 | 27 0 23 | NOV. . | 23 16 25 | 23 5 3 | |
| | | | | DEC. . | 23 5 9 | 22 22 15 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| A.D. 1745. F. March. <i>d. h. m.</i> 9 14 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1748. C.B. March. <i>d. h. m.</i> 9 8 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 17 54 | 21 16 56 | | JAN. . | 19 9 4 | 19 5 48 |
| | FEB. . | 20 6 38 | 20 11 45 | | ○ | { 3 3 26 | 3 14 19 |
| | MAR. . | 21 19 22 | 22 5 18 | | FEB. . | { 17 21 48 | 17 17 4 |
| | APRIL | 20 8 6 | 20 20 25 | | MAR. . | 18 10 32 | 18 4 57 |
| | MAY . | 19 20 50 | 20 8 45 | | APRIL | 16 23 16 | 16 17 43 |
| | JUNE . | 18 9 34 | 18 18 34 | | MAY . | 16 12 0 | 16 7 34 |
| | JULY . | 17 22 18 | 18 2 43 | | JUNE . | 15 0 44 | 14 22 28 |
| | AUG. . | 16 11 2 | 16 10 19 | | JULY . | { 14 13 28 | 14 13 53 |
| | SEPT. . | 14 23 46 | 14 18 18 | | ○ | { 29 7 50 | 29 1 25 |
| | OCT. . | 14 12 30 | 14 3 33 | | AUG. . | 18 2 12 | 18 5 12 |
| | NOV. . | 13 1 14 | 12 14 37 | | SEPT. . | 11 14 56 | 11 19 51 |
| | DEC. . | 12 13 58 | 12 3 45 | | OCT. . | 11 3 40 | 11 9 35 |
| | | | | | NOV. . | 9 16 24 | 9 22 21 |
| | | | | | DEC. . | 9 5 8 | 9 10 15 |
| 1746. E. 9 20 31 | JAN. . | 11 2 43 | 10 18 58 | 1749. A. 9 13 57 | JAN. . | 7 17 53 | 7 21 25 |
| | FEB. . | { 9 15 27 | 9 11 45 | | FEB. . | 6 6 37 | 6 7 52 |
| | ○ | { 24 9 49 | 24 18 16 | | MAR. . | 7 19 21 | 7 17 47 |
| | MAR. . | 11 4 11 | 11 5 16 | | APRIL | 6 8 5 | 6 8 33 |
| | APRIL | 9 16 55 | 9 22 27 | | MAY . | 5 20 49 | 5 18 52 |
| | MAY . | 9 5 39 | 9 14 17 | | JUNE . | { 4 9 33 | 4 1 27 |
| | JUNE . | 7 18 23 | 8 4 5 | | ○ | { 19 3 55 | 19 11 15 |
| | JULY . | 7 7 7 | 7 15 44 | | JULY . | 3 22 17 | 3 14 47 |
| | AUG. . | { 5 19 51 | 6 1 40 | | AUG. . | { 2 11 1 | 2 5 52 |
| | ○ | { 20 14 13 | 20 2 12 | | { 31 23 45 | 31 22 11 | |
| | SEPT. . | 4 8 35 | 4 10 45 | | SEPT. . | 30 12 29 | 30 14 53 |
| | OCT. . | 3 21 19 | 3 19 47 | | OCT. . | 30 1 18 | 30 7 9 |
| | NOV. . | 2 10 3 | 2 5 28 | | NOV. . | 28 18 57 | 28 22 13 |
| | DEC. . | { 1 22 47 | 1 16 12 | | ○ | { 18 8 19 | 12 22 10 |
| | | { 31 11 31 | 31 4 8 | | DEC. . | { 28 2 41 | 28 11 50 |
| 1747. D. 10 2 20 | JAN. . | 30 0 15 | 29 17 18 | 1750. G. 9 19 46 | JAN. . | 26 15 25 | 26 23 42 |
| | ○ | { 13 18 37 | 14 7 40 | | FEB. . | 25 4 9 | 25 9 56 |
| | FEB. . | { 23 12 59 | 23 7 39 | | MAR. . | 26 16 53 | 26 18 53 |
| | MAR. . | 30 1 43 | 29 22 59 | | APRIL | 25 5 37 | 25 3 7 |
| | APRIL | 28 14 27 | 28 14 51 | | MAY . | 24 18 21 | 24 11 29 |
| | MAY . | 28 3 11 | 28 6 33 | | ○ | { 8 12 48 | 8 28 16 |
| | JUNE . | 26 15 55 | 26 21 36 | | JUNE . | { 23 7 5 | 22 21 0 |
| | JULY . | 26 4 39 | 26 11 14 | | JULY . | 22 19 49 | 22 3 33 |
| | ○ | { 9 23 1 | 9 10 33 | | AUG. . | 21 8 33 | 20 22 37 |
| | AUG. . | { 24 17 23 | 24 23 47 | | SEPT. . | 19 21 17 | 19 15 1 |
| | SEPT. . | 23 6 7 | 23 10 33 | | OCT. . | 19 10 1 | 19 3 56 |
| | OCT. . | 22 18 51 | 22 21 18 | | NOV. . | 17 22 45 | 18 3 17 |
| | NOV. . | 21 7 35 | 21 7 54 | | ○ | { 2 17 7 | 2 8 24 |
| | DEC. . | 20 20 19 | 20 18 41 | | DEC. . | { 17 11 29 | 17 20 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1751. F. March. <i>d. h. m.</i> 10 1 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1754. B. March. <i>d. h. m.</i> 9 19 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 0 14 | 16 11 59 | | JAN. . | 12 15 24 | 12 11 30 |
| | FEB. . | 14 12 58 | 15 0 53 | | FEB. . | 11 4 8 | 11 6 16 |
| | MAR. . | 16 1 42 | 16 11 21 | | MAR. . | { 12 16 52 | 13 0 26 |
| | APRIL | 14 14 26 | 14 19 53 | | ○ | { 27 11 14 | 27 10 34 |
| | MAY . | { 14 3 10 | 14 3 12 | | APRIL | 11 5 36 | 11 16 45 |
| | ○ | { 28 21 32 | 29 4 2 | | MAY . | 10 18 20 | 11 6 27 |
| | JUNE . | 12 15 54 | 12 10 21 | | JUNE . | 9 7 4 | 9 17 28 |
| | JULY . | 12 4 38 | 11 18 21 | | JULY . | 8 19 48 | 9 2 27 |
| | AUG. . | 10 17 22 | 10 4 19 | | AUG. . | 7 8 32 | 7 10 20 |
| | SEPT. . | 9 6 6 | 8 17 2 | | SEPT. . | { 5 21 16 | 5 18 12 |
| | OCT. . | 8 18 50 | 8 8 44 | | ○ | { 20 15 38 | 20 12 39 |
| | NOV. . | { 7 7 34 | 7 2 55 | | OCT. . | 5 10 0 | 5 2 54 |
| | ○ | { 22 1 56 | 21 22 29 | | NOV. . | 3 22 44 | 3 13 7 |
| | DEC. . | 6 20 18 | 6 22 17 | | DEC. . | 3 11 23 | 3 1 15 |
| 1752. E.D. 9 7 24 | JAN. . | 5 9 3 | 5 17 11 | 1755. A. | JAN. . | { 2 0 12 | 1 15 22 |
| | FEB. . | 3 21 47 | 4 10 11 | | FEB. . | { 31 12 56 | 31 7 13 |
| | MAR. . | 4 10 31 | 5 0 20 | | ... | ... | ... |
| | APRIL | 2 23 15 | 3 11 32 | | ... | 2 1 40 | 2 0 14 |
| | MAY . | 2 11 59 | 2 20 17 | 10 0 50 | MAR. ○ | { 16 20 2 | 17 3 7 |
| | JUNE . | { 1 0 43 | 1 3 25 | | | { 31 14 24 | 31 17 28 |
| | JULY . | { 30 13 27 | 30 10 2 | | APRIL | 30 3 8 | 30 9 53 |
| | AUG. . | 30 2 11 | 29 17 16 | | MAY . | 29 15 52 | 30 0 47 |
| | SEPT. . | 28 14 55 | 28 2 10 | | JUNE . | 28 4 36 | 28 13 34 |
| | OCT. . | 27 3 39 | 26 13 38 | | JULY . | 27 17 20 | 28 0 29 |
| | NOV. . | 26 16 23 | 26 4 10 | | AUG. . | 26 6 4 | 26 10 6 |
| | DEC. . | 25 5 7 | 24 21 33 | | ○ | { 10 0 23 | 9 13 9 |
| | | 24 17 51 | 24 16 44 | | SEPT. . | { 24 18 43 | 24 19 18 |
| 1753. C. 9 13 13 | JAN. . | 23 6 35 | 23 12 11 | 1756. G.F. | JAN. . | 20 21 45 | 20 14 52 |
| | FEB. . | 21 19 19 | 22 6 14 | | FEB. . | 19 10 29 | 19 4 23 |
| | MAR. . | 23 8 3 | 23 21 39 | 9 6 39 | MAR. . | 19 23 13 | 19 18 56 |
| | ○ | { 7 2 25 | 6 20 46 | | APRIL | 18 11 57 | 18 10 20 |
| | APRIL | { 21 20 47 | 22 10 0 | | MAY . | 18 0 41 | 18 2 6 |
| | MAY . | 21 9 31 | 21 19 35 | | JUNE . | 16 13 25 | 16 17 30 |
| | JUNE . | 19 22 15 | 20 3 17 | | JULY . | 16 2 9 | 16 7 56 |
| | JULY . | 19 10 59 | 19 10 10 | | AUG. . | 14 14 53 | 14 21 5 |
| | AUG. . | 17 23 43 | 17 17 22 | | SEPT. . | 13 3 37 | 13 9 1 |
| | SEPT. . | 16 12 27 | 16 1 51 | | OCT. . | 12 16 21 | 12 20 9 |
| | ○ | { 1 6 49 | 1 11 15 | | NOV. . | 11 5 5 | 11 6 58 |
| | OCT. . | { 16 1 11 | 15 12 27 | | DEC. . | 10 17 49 | 10 17 45 |
| | NOV. . | 14 13 55 | 14 1 40 | | | | |
| | DEC. . | 14 2 39 | 13 17 34 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1757. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1760. B.A. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 9 12 28 | JAN. . | { 9 6 34 | 9 4 39 | 9 5 55 | JAN. . | 6 21 44 | 7 8 49 |
| | ○ | { 24 0 56 | 24 9 27 | | FEB. . | 5 10 28 | 5 22 59 |
| | FEB. . | 7 19 18 | 7 15 39 | | MAR. . | 5 23 12 | 6 10 32 |
| | MAR. . | 9 8 2 | 9 2 57 | | APRIL | 4 11 56 | 4 19 48 |
| | APRIL | 7 20 46 | 7 14 57 | | MAY . | { 4 0 40 | 4 3 28 |
| | MAY . | 7 9 30 | 7 3 57 | | ○ | { 18 19 2 | 18 23 41 |
| | JUNE . | 5 22 14 | 5 18 11 | | JUNE . | 2 13 24 | 2 10 28 |
| | JULY . | { 5 10 58 | 5 9 21 | | JULY . | { 2 2 8 | 1 17 49 |
| | ○ | { 20 5 20 | 20 1 40 | | AUG. . | { 31 14 52 | 31 2 39 |
| | AUG. . | 3 23 42 | 4 0 56 | | SEPT. . | 30 3 36 | 29 13 58 |
| | SEPT. . | 2 12 26 | 2 16 13 | | OCT. . | 28 16 20 | 28 4 17 |
| | OCT. . | { 2 1 10 | 2 6 43 | | ○ | { 23 5 4 | 27 21 26 |
| | NOV. . | { 31 13 54 | 31 20 15 | | NOV. . | { 11 23 26 | 11 22 40 |
| | DEC. . | 30 2 38 | 30 8 47 | | DEC. . | { 26 17 48 | 26 16 30 |
| | | 29 15 22 | 29 20 24 | | | 26 6 32 | 26 11 54 |
| 1758. D. | ○ | { 13 9 44 | 13 8 49 | 1761. G. | JAN. . | 24 19 16 | 25 6 2 |
| 9 18 17 | JAN. . | { 28 4 6 | 28 7 8 | 9 11 43 | FEB. . | 23 8 0 | 23 21 38 |
| | FEB. . | 26 16 50 | 26 17 5 | | MAR. . | 24 20 44 | 25 10 13 |
| | MAR. . | 28 5 34 | 28 2 37 | | APRIL | 23 9 28 | 23 19 59 |
| | APRIL | 26 18 18 | 26 12 18 | | ○ | { 8 3 50 | 8 0 23 |
| | MAY . | 26 7 2 | 25 22 57 | | MAY . | { 22 22 12 | 23 3 43 |
| | JUNE . | 24 19 46 | 24 11 12 | | JUNE . | 21 10 56 | 21 10 26 |
| | ○ | { 9 14 8 | 9 18 42 | | JULY . | 20 23 40 | 20 17 15 |
| | JULY . | { 24 8 30 | 24 1 25 | | AUG. . | 19 12 24 | 19 1 14 |
| | AUG. . | 22 21 14 | 22 17 18 | | SEPT. . | 18 1 8 | 17 11 25 |
| | SEPT. . | 21 9 58 | 21 10 8 | | OCT. . | 17 13 52 | 17 0 29 |
| | OCT. . | 20 22 42 | 21 3 0 | | ○ | { 1 8 14 | 1 13 24 |
| | NOV. . | 19 11 26 | 19 19 2 | | NOV. . | { 16 2 36 | 15 16 32 |
| | DEC. . | 19 0 10 | 19 9 35 | | DEC. . | 15 15 20 | 15 10 59 |
| 1759. C. | ○ | { 2 13 32 | 2 10 22 | 1762. F. | JAN. . | 14 4 5 | 14 6 29 |
| 10 0 6 | JAN. . | { 17 12 55 | 17 22 22 | 9 17 32 | FEB. . | 12 16 49 | 13 1 21 |
| | FEB. . | 16 1 39 | 16 9 18 | | MAR. . | 14 5 33 | 14 18 6 |
| | MAR. . | 17 14 23 | 17 18 41 | | APRIL | { 12 18 17 | 13 7 55 |
| | APRIL | 16 3 7 | 16 2 57 | | ○ | { 27 12 39 | 27 6 5 |
| | MAY . | 15 15 51 | 15 10 56 | | MAY . | 12 7 1 | 12 18 46 |
| | JUNE . | 14 4 35 | 13 19 37 | | JUNE . | 10 19 45 | 11 3 17 |
| | JULY . | 13 17 19 | 13 5 57 | | JULY . | 10 8 29 | 10 10 29 |
| | AUG. . | 12 6 3 | 11 18 43 | | AUG. . | 8 21 18 | 8 17 30 |
| | SEPT. . | 10 18 47 | 10 10 6 | | SEPT. . | 7 9 57 | 7 1 21 |
| | OCT. . | 10 7 31 | 10 3 35 | | OCT. . | { 6 22 41 | 6 10 56 |
| | NOV. . | 8 20 15 | 8 22 5 | | ○ | { 21 17 3 | 21 22 50 |
| | DEC. . | 8 8 59 | 8 16 14 | | NOV. . | 5 11 25 | 4 22 54 |
| | | | | | DEC. . | 5 0 9 | 4 13 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1763. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1766. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | 3 12 54 | 3 6 25 | A. | JAN. . | 29 16 48 | 29 14 30 |
| March. | FEB. . | 2 1 38 | 2 0 46 | March. | ○ { | 13 11 10 | 13 22 12 |
| <i>d. h. m.</i> | MAR. . | 3 14 22 | 3 19 14 | <i>d. h. m.</i> | FEB. . | { 28 5 32 | 28 1 23 |
| 9 23 21 | APRIL | 2 3 6 | 2 12 27 | 9 16 48 | MAR. . | 29 18 16 | 29 12 41 |
| | MAY . | { 1 15 50 | 2 3 26 | | APRIL | 28 7 0 | 28 0 51 |
| | | { 31 4 34 | 31 15 47 | | MAY . | 27 19 44 | 27 14 15 |
| | JUNE . | 29 17 18 | 30 1 45 | | JUNE . | 26 8 28 | 26 4 55 |
| | JULY . | 29 6 2 | 29 10 12 | | JULY . | 25 21 12 | 25 20 25 |
| | AUG. . | 27 18 46 | 27 18 8 | | ○ { | 9 15 34 | 9 9 3 |
| | SEPT. . | 26 7 30 | 26 2 31 | | AUG. . | { 24 9 56 | 24 12 6 |
| | OCT. . | 25 20 14 | 25 12 4 | | SEPT. . | 22 22 40 | 23 3 20 |
| | NOV. . | 24 8 58 | 23 23 17 | | OCT. . | 22 11 24 | 22 17 40 |
| | DEC. . | 23 21 42 | 23 12 22 | | NOV. . | 21 0 8 | 21 6 57 |
| 1764. | JAN. . | 22 10 26 | 22 3 14 | 1767. | JAN. . | 19 1 36 | 19 6 19 |
| D.C. | FEB. . | 20 23 10 | 20 19 31 | G. | FEB. . | 17 14 20 | 17 16 30 |
| 9 5 10 | ○ { | 6 17 32 | 7 2 38 | 9 22 36 | MAR. . | 19 3 4 | 19 1 53 |
| | MAR. . | { 21 11 54 | 21 12 30 | | APRIL | 17 15 43 | 17 11 13 |
| | APRIL | 20 0 88 | 20 5 17 | | MAY . | 17 4 32 | 16 21 2 |
| | MAY . | 19 13 22 | 19 20 57 | | JUNE . | 15 17 16 | 15 8 14 |
| | JUNE . | 13 2 6 | 18 10 50 | | JULY . | 15 6 0 | 14 21 24 |
| | JULY . | 17 14 50 | 17 22 45 | | AUG. . | 13 18 44 | 13 12 32 |
| | AUG. . | { 16 8 34 | 16 9 7 | | SEPT. . | 12 7 28 | 12 5 10 |
| | ○ { | 30 21 56 | 30 9 19 | | OCT. . | 11 20 12 | 11 22 24 |
| | SEPT. . | 14 16 18 | 14 18 41 | | NOV. . | 10 8 53 | 10 15 13 |
| | OCT. . | 14 5 2 | 14 4 11 | | DEC. . | { 9 21 40 | 10 6 46 |
| | NOV. . | 12 17 46 | 12 14 14 | | ○ { | 24 16 2 | 24 6 36 |
| | DEC. . | 12 6 30 | 12 1 5 | | | | |
| 1765. | JAN. . | 10 19 15 | 10 12 54 | 1768. | JAN. . | 8 10 25 | 8 20 35 |
| B. | FEB. . | { 9 7 59 | 9 1 33 | F.E. | FEB. . | 6 23 9 | 7 3 23 |
| 9 10 59 | ○ { | 24 2 21 | 24 15 52 | 9 4 25 | MAR. . | 7 11 53 | 7 13 21 |
| | MAR. . | 10 20 43 | 10 15 24 | | APRIL | 6 0 37 | 6 2 54 |
| | APRIL | 9 9 27 | 9 6 8 | | MAY . | 5 13 21 | 5 10 44 |
| | MAY . | 8 22 11 | 8 21 33 | | JUNE . | { 4 2 5 | 8 13 45 |
| | JUNE . | 7 10 55 | 7 13 6 | | ○ { | 18 20 27 | 19 6 11 |
| | JULY . | 6 23 39 | 7 4 10 | | JULY . | 3 14 49 | 3 4 2 |
| | AUG. . | { 5 12 23 | 5 18 9 | | AUG. . | { 2 3 33 | 1 15 29 |
| | ○ { | 20 6 45 | 19 18 2 | | | { 31 16 17 | 31 5 37 |
| | SEPT. . | 4 1 7 | 4 6 56 | | SEPT. . | 30 5 1 | 29 22 18 |
| | OCT. . | 3 13 51 | 3 18 43 | | OCT. . | 29 17 45 | 29 16 38 |
| | NOV. . | 2 2 35 | 2 5 53 | | NOV. . | 28 6 29 | 28 11 19 |
| | DEC. . | { 1 15 19 | 1 16 49 | | ○ { | 13 0 51 | 12 17 14 |
| | | { 31 4 3 | 31 3 40 | | DEC. . | { 27 19 13 | 28 4 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1769. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1772. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 26 7 58 | 26 20 25 | A.G. | JAN. . | 23 23 8 | 23 19 28 |
| March. | FEB. . | 24 20 42 | 25 9 18 | March. | FEB. . | 22 11 52 | 22 18 50 |
| <i>d. h. m.</i> | MAR. . | 26 9 26 | 26 19 27 | <i>d. h. m.</i> | MAR. . | 23 0 35 | 23 7 39 |
| 9 10 14 | APRIL | 24 22 10 | 25 4 10 | | ○ | { 6 18 57 | 6 18 32 |
| | MAY . | 24 10 54 | 24 10 45 | | APRIL | { 21 13 19 | 21 23 45 |
| | ○ | { 8 5 16 | 8 10 38 | | MAY . | 21 2 3 | 21 13 22 |
| | JUNE . | { 22 23 38 | 22 17 43 | | JUNE . | 19 14 47 | 20 0 31 |
| | JULY . | 22 12 22 | 21 23 39 | | JULY . | 19 3 31 | 19 9 45 |
| | AUG. . | 21 1 6 | 20 11 38 | | AUG. . | 17 16 15 | 17 18 0 |
| | SEPT. . | 19 13 50 | 19 0 29 | | SEPT. . | { 16 4 59 | 16 2 15 |
| | OCT. . | 19 2 34 | 18 16 23 | | ○ | { 30 23 21 | 30 19 54 |
| | NOV. . | 17 15 18 | 17 10 44 | | OCT. . | 15 17 43 | 15 11 19 |
| | ○ | { 2 9 40 | 2 8 25 | | NOV. . | 14 6 27 | 13 21 48 |
| | DEC. . | { 17 4 2 | 17 6 16 | | DEC. . | 13 19 11 | 13 9 57 |
| 1770. | JAN. . | 15 16 46 | 16 1 15 | 1773. | JAN. . | 12 7 56 | 11 23 49 |
| C. | FEB. . | 14 5 30 | 14 18 12 | F. | FEB. . | 10 20 40 | 10 15 13 |
| 9 16 3 | MAR. . | 15 18 14 | 16 8 13 | 9 9 29 | MAR. . | { 12 9 24 | 12 7 40 |
| | APRIL | 14 6 58 | 14 19 15 | | ○ | { 27 3 46 | 27 11 14 |
| | MAY . | 13 19 42 | 14 3 48 | | APRIL | 10 22 8 | 11 0 27 |
| | JUNE . | 12 8 26 | 12 10 52 | | MAY . | 10 10 52 | 10 16 38 |
| | JULY . | 11 21 10 | 11 17 30 | | JUNE . | 8 23 36 | 9 7 26 |
| | AUG. . | 10 9 54 | 10 0 50 | | JULY . | 8 12 20 | 8 20 27 |
| | SEPT. . | 8 22 38 | 8 9 53 | | AUG. . | 7 1 4 | 7 7 44 |
| | OCT. . | 8 11 22 | 7 21 32 | | SEPT. . | { 5 13 48 | 5 17 51 |
| | NOV. . | 7 0 6 | 6 12 12 | | ○ | { 20 8 10 | 19 20 28 |
| | DEC. . | 6 12 50 | 6 5 35 | | OCT. . | 5 2 32 | 5 3 33 |
| 1771. | JAN. . | 5 1 35 | 5 0 42 | | NOV. . | 3 15 16 | 3 13 29 |
| B. | FEB. . | 3 14 19 | 3 19 59 | | DEC. . | 3 4 0 | 3 0 1 |
| 9 21 52 | MAR. . | 5 3 3 | 5 13 50 | 1774. | JAN. . | { 1 16 45 | 1 11 19 |
| | APRIL | { 3 15 47 | 4 5 6 | E. | FEB. . | { 31 5 29 | 30 23 25 |
| | ○ | { 18 10 9 | 18 4 19 | | ... | ... | ... |
| | MAY . | 3 4 31 | 3 17 20 | | MAR. . | { 1 18 13 | 1 12 23 |
| | JUNE . | 1 17 15 | 2 2 54 | 9 15 18 | | { 31 6 57 | 31 2 20 |
| | JULY . | { 1 5 59 | 1 10 40 | | APRIL | 29 19 41 | 29 17 11 |
| | | { 30 18 43 | 30 17 45 | | MAY . | 29 8 25 | 29 8 37 |
| | AUG. . | 29 7 27 | 29 1 12 | | JUNE . | 27 21 9 | 27 23 59 |
| | SEPT. . | 27 20 11 | 27 9 57 | | JULY . | 27 9 53 | 27 14 41 |
| | ○ | { 12 14 33 | 12 18 56 | | AUG. . | 25 22 37 | 26 4 18 |
| | OCT. . | { 27 8 56 | 26 20 48 | | SEPT. . | 24 11 21 | 24 16 51 |
| | NOV. . | 25 21 40 | 25 10 7 | | OCT. . | 24 0 5 | 24 4 33 |
| | DEC. . | 25 10 24 | 25 1 51 | | NOV. . | 22 12 49 | 22 15 46 |
| | | | | | DEC. . | 22 1 33 | 22 2 45 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|-----------|------------------------------------|------------------------------------|----------------------------|-----------|------------------------------------|------------------------------------|
| A.D. 1775. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1778. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 20 14 17 | 20 13 30 | G. | JAN. . | 17 5 26 | 17 17 9 |
| March. | ○ | { 4 8 39 | 4 17 19 | March. | FEB. . | 15 18 10 | 16 7 16 |
| <i>d. h. m.</i> | FEB. . | { 19 3 1 | 19 0 8 | <i>d. h. m.</i> | MAR. . | 17 6 55 | 17 18 40 |
| 9 21 7 | MAR. . | 20 15 45 | 20 10 54 | 9 14 34 | APRIL | 15 19 39 | 16 3 39 |
| | APRIL | 19 4 29 | 18 22 17 | | MAY . | 15 8 23 | 15 11 5 |
| | MAY . | 18 17 13 | 18 10 47 | | JUNE . | 13 21 7 | 13 17 53 |
| | JUNE . | 17 5 57 | 17 0 41 | | JULY . | 13 9 51 | 13 1 9 |
| | JULY . | { 16 18 41 | 16 15 49 | | AUG. . | 11 22 35 | 11 10 1 |
| | ○ | { 31 13 3 | 31 9 14 | | SEPT. . | 10 11 19 | 9 21 24 |
| | AUG. . | 15 7 25 | 15 7 38 | | OCT. . | 10 0 3 | 9 11 52 |
| | SEPT. . | 13 20 9 | 13 23 26 | | NOV. . | { 8 12 47 | 8 5 13 |
| | OCT. . | 13 8 53 | 13 14 33 | | ○ | { 23 7 9 | 23 7 30 |
| | NOV. . | 11 21 37 | 12 4 39 | | DEC. . | 8 1 31 | 8 0 24 |
| | DEC. . | 11 10 21 | 11 17 34 | | | | |
| 1776. | JAN. . | { 9 23 6 | 10 5 19 | 1779. | JAN. . | 6 14 15 | 6 19 55 |
| C.B. | ○ | { 24 17 28 | 24 16 41 | F. | FEB. . | 5 2 59 | 5 14 1 |
| 9 2 56 | FEB. . | 8 11 50 | 8 15 53 | 9 20 22 | MAR. . | 6 15 44 | 7 5 38 |
| | MAR. . | 9 0 34 | 9 1 27 | | APRIL | 5 4 28 | 5 17 57 |
| | APRIL | 7 13 18 | 7 10 29 | | MAY . | { 4 17 12 | 5 3 34 |
| | MAY . | 7 2 2 | 6 19 41 | | ○ | { 19 11 34 | 19 7 7 |
| | JUNE . | 5 14 46 | 5 5 55 | | JUNE . | 3 5 56 | 3 11 11 |
| | JULY . | { 5 3 30 | 4 17 55 | | JULY . | 2 13 40 | 2 17 55 |
| | ○ | { 19 21 52 | 20 4 8 | | AUG. . | { 1 7 24 | 1 0 48 |
| | AUG. . | 3 16 14 | 3 8 5 | | { 30 20 8 | 30 8 57 | |
| | SEPT. . | 2 4 53 | 2 0 11 | | SEPT. . | 29 3 52 | 28 19 20 |
| | OCT. . | { 1 17 42 | 1 17 27 | | OCT. . | 28 21 36 | 28 3 32 |
| | { 31 6 26 | 31 10 52 | | | ○ | { 12 15 58 | 12 21 58 |
| | NOV. . | 29 19 10 | 30 3 28 | | NOV. . | { 27 10 20 | 27 0 39 |
| | DEC. . | 29 7 54 | 29 18 14 | | DEC. . | 26 23 4 | 26 19 2 |
| | ○ | { 18 2 16 | 12 18 41 | 1780. | JAN. . | 25 11 49 | 25 14 20 |
| 1777. | JAN. . | { 27 20 33 | 23 7 2 | E.D. | FEB. . | 24 0 33 | 24 9 0 |
| A. | FEB. . | 26 9 22 | 26 17 47 | 9 2 11 | MAR. . | 24 13 17 | 25 1 33 |
| 9 8 45 | MAR. . | 27 22 6 | 23 2 43 | | APRIL | 23 2 1 | 23 15 13 |
| | APRIL | 26 10 50 | 26 10 43 | | ○ | { 7 20 23 | 7 13 20 |
| | MAY . | 25 23 34 | 25 18 20 | | MAY . | { 22 14 45 | 23 2 2 |
| | JUNE . | 24 12 18 | 24 2 43 | | JUNE . | 21 3 29 | 21 10 37 |
| | ○ | { 9 6 40 | 9 15 10 | | JULY . | 20 16 13 | 20 17 59 |
| | JULY . | { 24 1 2 | 23 12 56 | | AUG. . | 19 4 57 | 19 1 14 |
| | AUG. . | 22 13 46 | 22 1 43 | | SEPT. . | 17 17 41 | 17 9 24 |
| | SEPT. . | 21 2 30 | 20 17 17 | | OCT. . | 17 6 25 | 16 19 16 |
| | OCT. . | 20 15 14 | 20 11 5 | | ○ | { 1 0 47 | 1 6 51 |
| | NOV. . | 19 3 53 | 19 5 57 | | NOV. . | { 15 19 9 | 15 7 23 |
| | DEC. . | 18 16 42 | 19 0 25 | | DEC. . | 15 7 53 | 14 21 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1781. c. March. d. h. m. 9 8 0 | | d. h. m. | d. h. m. | A.D. 1784. G.F. March. d. h. m. 9 1 27 | | d. h. m. | d. h. m. |
| | JAN. . | 13 20 37 | 13 14 33 | | JAN. . | 11 11 47 | 11 12 38 |
| | FEB. . | 12 9 21 | 12 8 29 | | FEB. . | 10 0 31 | 9 23 9 |
| | MAR. . | 13 22 5 | 14 2 33 | | ○ | 21 18 53 | 25 5 56 |
| | APRIL | 12 10 49 | 12 19 28 | | MAR. . | 10 13 15 | 10 9 83 |
| | MAY . | 11 23 33 | 12 10 19 | | APRIL | 9 1 59 | 8 20 16 |
| | JUNE . | 10 12 17 | 10 22 43 | | MAY . | 8 14 43 | 8 7 53 |
| | JULY . | 10 1 1 | 10 8 55 | | JUNE . | 7 3 27 | 6 20 54 |
| | AUG. . | 8 13 45 | 8 17 42 | | JULY . | 6 16 11 | 6 11 23 |
| | SEPT. . | 7 2 29 | 7 2 3 | | AUG. . | 5 4 55 | 5 3 1 |
| | OCT. . | 6 15 13 | 6 10 50 | | ○ | 19 23 17 | 19 16 46 |
| | NOV. . | 5 3 57 | 4 20 43 | | SEPT. . | 3 17 39 | 3 19 6 |
| | DEC. . | 4 16 41 | 4 8 3 | | OCT. . | 3 6 23 | 3 10 54 |
| | | | | | NOV. . | 1 19 7 | 2 1 51 |
| 1782. B. 9 13 49 | JAN. . | 3 5 25 | 2 20 59 | | DEC. . | 1 7 51 | 1 15 36 |
| | FEB. . | 1 13 9 | 1 11 27 | 1785. E. 9 7 15 | JAN. . | 30 20 35 | 31 4 2 |
| | MAR. . | 3 6 54 | 3 3 11 | | FEB. . | 29 9 19 | 29 15 6 |
| | ○ | 18 1 16 | 18 10 51 | | MAR. . | 27 22 4 | 28 1 0 |
| | APRIL | 1 19 38 | 1 19 37 | | APRIL | 29 10 48 | 29 10 2 |
| | MAY . | 1 8 22 | 1 12 1 | | MAY . | 27 23 32 | 27 18 49 |
| | JUNE . | 30 21 6 | 31 3 31 | | JUNE . | 27 12 16 | 27 4 11 |
| | JULY . | 29 9 50 | 29 17 31 | | JULY . | 26 1 0 | 25 15 4 |
| | AUG. . | 28 22 34 | 29 5 48 | | AUG. . | 25 13 44 | 25 4 6 |
| | ○ | 27 11 18 | 27 16 40 | | SEPT. . | 24 2 28 | 23 19 21 |
| | SEPT. . | 11 5 40 | 10 16 38 | | OCT. . | 22 15 12 | 22 12 19 |
| | OCT. . | 26 0 2 | 26 2 46 | | NOV. . | 22 3 56 | 22 6 8 |
| | NOV. . | 25 12 46 | 25 12 45 | | DEC. . | 20 16 40 | 20 23 22 |
| | DEC. . | 24 1 30 | 23 23 6 | | | 20 5 24 | 20 15 19 |
| | | 23 14 14 | 23 10 3 | | ○ | 3 23 46 | 3 15 4 |
| 1783. A. 9 19 38 | JAN. . | 22 2 59 | 21 21 37 | 1786. D. 9 13 4 | JAN. . | 18 18 8 | 19 5 13 |
| | FEB. . | 20 15 43 | 20 9 53 | | FEB. . | 17 6 52 | 17 16 53 |
| | ○ | 7 10 5 | 7 23 55 | | MAR. . | 18 19 36 | 19 2 35 |
| | MAR. . | 22 4 26 | 21 23 2 | | APRIL | 17 8 20 | 17 10 47 |
| | APRIL | 20 17 10 | 20 13 9 | | MAY . | 16 21 4 | 16 18 16 |
| | MAY . | 20 5 54 | 20 4 9 | | JUNE . | 15 9 48 | 15 2 1 |
| | JUNE . | 18 13 38 | 18 19 32 | | ○ | 30 4 10 | 30 18 8 |
| | JULY . | 18 7 22 | 18 10 43 | | JULY . | 14 22 32 | 14 11 7 |
| | AUG. . | 16 20 6 | 17 1 8 | | AUG. . | 13 11 16 | 12 22 31 |
| | ○ | 31 14 28 | 31 1 37 | | SEPT. . | 12 0 0 | 11 12 46 |
| | SEPT. . | 15 8 50 | 15 14 28 | | OCT. . | 11 12 44 | 11 5 41 |
| | OCT. . | 14 21 34 | 15 2 51 | | NOV. . | 10 1 28 | 10 0 21 |
| | NOV. . | 13 10 18 | 13 14 32 | | DEC. . | 9 14 12 | 9 19 21 |
| | DEC. . | 12 23 2 | 13 1 45 | | ○ | 24 8 34 | 24 2 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1787. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1790. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| C. | | | | F. | | | |
| March. | JAN. . | 8 2 57 | 8 13 12 | March. | JAN. . | 4 18 7 | 4 10 10 |
| <i>d. h. m.</i> | FEB. . | 6 15 41 | 7 4 43 | <i>d. h. m.</i> | FEB. . | 3 6 51 | 3 3 22 |
| 9 18 53 | MAR. . | 8 4 25 | 8 17 22 | 9 12 20 | MAR. . | 4 19 35 | 4 21 17 |
| | APRIL | 6 17 9 | 7 3 22 | | APRIL | { 3 8 19 | 3 14 45 |
| | MAY . | 6 5 53 | 6 11 21 | | O | { 18 2 41 | 18 2 23 |
| | JUNE . | { 4 18 37 | 4 18 14 | | MAY . | 2 21 3 | 3 6 37 |
| | O | { 19 12 59 | 19 17 1 | | JUNE . | { 1 9 47 | 1 20 14 |
| | JULY . | 4 7 21 | 4 1 5 | | | { 30 22 31 | { 1 7 34 |
| | AUG. . | 2 20 5 | { 2 9 1 | | JULY . | 30 11 15 | { 30 17 7 |
| | SEPT. . | { 1 8 49 | 31 19 5 | | AUG. . | 28 23 59 | 29 1 46 |
| | | { 30 21 33 | 30 8 5 | | SEPT. . | 27 12 43 | 27 10 28 |
| | OCT. . | 30 10 17 | 30 0 8 | | O | { 12 7 5 | 12 3 18 |
| | NOV. . | 28 23 1 | 28 18 38 | | OCT. . | { 27 1 27 | 26 19 55 |
| | O | { 13 17 23 | 13 17 22 | | NOV. . | 25 14 11 | 25 6 36 |
| | DEC. . | { 28 11 45 | 28 14 13 | | DEC. . | 25 2 55 | 24 18 42 |
| 1788. | JAN. . | 27 0 30 | 27 9 13 | 1791. | JAN. . | 23 15 40 | 23 8 15 |
| B.A. | FEB. . | 25 13 14 | 26 2 5 | E. | FEB. . | 22 4 24 | 21 23 8 |
| 9 0 42 | MAR. . | 26 1 58 | 26 15 53 | 9 18 8 | MAR. . | 23 17 8 | 23 15 0 |
| | APRIL | 24 14 42 | 25 2 50 | | O | { 7 11 30 | 7 19 15 |
| | MAY . | 24 3 26 | 24 11 17 | | APRIL | { 22 5 52 | 22 7 18 |
| | JUNE . | 22 16 10 | 22 18 19 | | MAY . | 21 18 36 | 21 23 13 |
| | JULY . | 22 4 54 | 22 1 1 | | JUNE . | 20 7 20 | 20 14 2 |
| | AUG. . | 20 17 33 | 20 8 31 | | JULY . | 19 20 4 | 20 3 19 |
| | SEPT. . | 19 6 22 | 18 17 47 | | AUG. . | 18 8 43 | 18 15 4 |
| | OCT. . | 18 19 6 | 18 5 37 | | SEPT. . | 16 21 32 | 17 1 44 |
| | NOV. . | 17 7 50 | 16 20 21 | | O | { 1 15 54 | 1 3 55 |
| | DEC. . | 16 20 34 | 16 13 41 | | OCT. . | { 16 10 16 | 16 11 57 |
| 1789. | JAN. . | 15 9 18 | 15 8 37 | 1792. | JAN. . | 18 0 28 | 12 20 9 |
| G. | FEB. . | 13 22 2 | 14 3 39 | D.G. | FEB. . | 11 13 12 | 11 7 52 |
| 9 6 31 | MAR. . | 15 10 46 | 15 21 16 | 8 23 57 | MAR. . | 12 1 56 | 11 20 16 |
| | APRIL | { 13 23 30 | 14 12 22 | | APRIL | 10 14 40 | 10 9 35 |
| | O | { 28 17 52 | 28 11 45 | | MAY . | 10 3 24 | 9 23 56 |
| | MAY . | 13 12 14 | 14 0 32 | | JUNE . | 8 16 8 | 8 15 3 |
| | JUNE . | 12 0 58 | 12 10 9 | | JULY . | 8 4 52 | 8 6 27 |
| | JULY . | 11 13 42 | 11 18 8 | | AUG. . | 6 17 36 | 6 21 23 |
| | AUG. . | 10 2 26 | 10 1 23 | | SEPT. . | 5 6 20 | 5 11 36 |
| | SEPT. . | 8 15 10 | 8 9 8 | | OCT. . | 4 19 4 | 5 0 46 |
| | OCT. . | { 8 3 54 | 7 18 14 | | NOV. . | 3 7 43 | 3 13 2 |
| | O | { 22 22 16 | 23 2 42 | | DEC. . | 2 20 32 | 3 0 33 |
| | NOV. . | 6 16 33 | 6 5 16 | | | | |
| | DEC. . | 6 5 22 | 5 18 35 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|------------------------------|---------|------------------------------------|------------------------------------|--------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1793. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1796. F.E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 1 9 17 | 1 11 43 | March. | JAN. . | 23 13 11 | 29 1 25 |
| | | { 30 22 1 | 30 22 18 | <i>d. h. m.</i> | FEB. . | 27 1 55 | 27 15 29 |
| March. | FEB. ○ | 14 16 23 | 15 1 5 | 8 23 13 | MAR. . | 27 14 39 | 28 2 42 |
| <i>d. h. m.</i> | | { 1 10 45 | 1 8 32 | | APRIL | 26 3 23 | 26 11 25 |
| 9 5 46 | MAR. . | { 30 23 29 | 30 18 46 | | MAY . | 25 16 7 | 25 18 38 |
| | APRIL | 29 12 13 | 29 5 44 | | JUNE . | 24 4 51 | 24 1 18 |
| | MAY . | 29 0 57 | 28 17 35 | | JULY . | 23 17 35 | 23 8 33 |
| | JUNE . | 27 13 41 | 27 7 14 | | AUG. . | 22 6 19 | 21 17 30 |
| | JULY . | 27 2 25 | 26 22 22 | | SEPT. . | 20 19 3 | 20 5 2 |
| | ○ | { 10 20 47 | 10 16 53 | | OCT. . | 20 7 47 | 19 19 38 |
| | AUG. . | { 25 15 9 | 25 14 29 | | NOV. . | 18 20 31 | 18 13 7 |
| | SEPT. . | 24 3 53 | 24 6 47 | | ○ | { 3 14 53 | 3 16 25 |
| | OCT. . | 23 16 37 | 23 22 30 | | DEC. . | { 18 9 15 | 18 8 23 |
| | NOV. . | 22 5 21 | 22 13 7 | | | | |
| | DEC. . | 21 18 5 | 22 2 22 | 1797. D. | JAN. . | 16 22 0 | 17 3 53 |
| 1794. A. | JAN. . | 20 6 50 | 20 14 9 | 9 5 1 | FEB. . | 15 10 44 | 15 21 55 |
| | ○ | { 4 1 12 | 4 0 32 | | MAR. . | 16 23 28 | 17 13 16 |
| | FEB. . | { 18 19 34 | 19 0 31 | | APRIL | 15 12 12 | 16 1 32 |
| 9 11 35 | MAR. . | 20 8 18 | 20 9 43 | | MAY . | { 15 0 56 | 15 11 2 |
| | APRIL | 18 21 2 | 18 18 17 | | ○ | { 29 19 18 | 29 13 46 |
| | MAY . | 18 9 46 | 18 3 1 | | JUNE . | 13 13 40 | 13 18 37 |
| | JUNE . | 16 22 30 | 16 12 53 | | JULY . | 13 2 24 | 13 1 22 |
| | JULY . | { 16 11 14 | 16 0 42 | | AUG. . | 11 15 8 | 11 8 26 |
| | ○ | { 31 5 36 | 31 9 36 | | SEPT. . | 10 3 52 | 9 16 49 |
| | AUG. . | 14 23 58 | 14 14 52 | | OCT. . | 9 16 36 | 9 3 25 |
| | SEPT. . | 13 12 42 | 13 7 13 | | NOV. . | { 8 5 20 | 7 16 45 |
| | OCT. . | 13 1 26 | 13 0 54 | | ○ | { 22 23 42 | 23 6 36 |
| | NOV. . | 11 14 10 | 11 18 48 | | DEC. . | 7 18 4 | 7 8 50 |
| | DEC. . | 11 2 54 | 11 11 45 | 1798. C. | JAN. . | 6 6 48 | 6 3 3 |
| 1795. G. | JAN. . | { 9 15 38 | 10 2 50 | 9 10 50 | FEB. . | 4 19 32 | 4 22 6 |
| | ○ | { 24 10 0 | 24 2 56 | | MAR. . | 6 8 16 | 6 16 27 |
| | FEB. . | 8 4 22 | 8 15 36 | | APRIL | 4 21 0 | 5 8 47 |
| 9 17 24 | MAR. . | 9 17 6 | 10 2 8 | | MAY . | { 4 9 44 | 4 22 22 |
| | APRIL | 8 5 50 | 8 10 50 | | ○ | { 19 4 6 | 18 20 30 |
| | MAY . | 7 18 34 | 7 18 23 | | JUNE . | 2 22 23 | 3 9 11 |
| | JUNE . | 6 7 18 | 6 1 43 | | JULY . | { 2 11 12 | 2 17 54 |
| | JULY . | { 5 20 2 | 5 9 54 | | | { 31 23 56 | { 1 1 30 |
| | ○ | { 20 14 24 | 20 22 13 | | AUG. . | 30 12 40 | { 30 9 6 |
| | AUG. . | 4 8 46 | 3 20 3 | | SEPT. . | 29 1 24 | 28 17 35 |
| | SEPT. . | 2 21 30 | 2 8 53 | | OCT. . | 28 14 8 | 28 3 44 |
| | OCT. . | { 2 10 14 | 2 0 38 | | ○ | { 12 8 30 | 12 14 55 |
| | | { 31 22 58 | 31 18 43 | | NOV. . | { 27 2 52 | 26 15 55 |
| | NOV. . | 30 11 42 | 30 13 53 | | DEC. . | 26 15 36 | 26 6 19 |
| | DEC. . | 30 0 26 | 30 8 36 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1799. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1802. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 25 4 21 | 24 22 38 | March. | JAN. . | 21 19 30 | 21 21 30 |
| <i>d. h. m.</i> | FEB. . | 23 17 5 | 23 15 6 | <i>d. h. m.</i> | FEB. . | 20 8 14 | 20 7 42 |
| 9 16 39 | MAR. . | 25 5 49 | 25 9 43 | 9 10 6 | ○ | { 7 2 36 | 7 13 30 |
| | APRIL | 23 18 33 | 24 2 21 | | MAR. . | { 21 20 59 | 21 17 38 |
| | MAY . | 23 7 17 | 23 17 6 | | APRIL | 20 9 43 | 20 8 48 |
| | JUNE . | 21 20 1 | 22 5 37 | | MAY . | 19 22 27 | 19 14 54 |
| | JULY . | 21 8 45 | 21 16 7 | | JUNE . | 18 11 11 | 18 3 33 |
| | AUG. . | 19 21 29 | 20 1 19 | | JULY . | 17 23 55 | 17 17 55 |
| | SEPT. . | 18 10 13 | 18 10 6 | | AUG. . | { 16 12 39 | 16 9 43 |
| | OCT. . | 17 22 57 | 17 19 19 | | ○ | { 31 7 1 | 31 0 38 |
| | NOV. . | 16 11 41 | 16 5 29 | | SEPT. . | 15 1 23 | 15 2 13 |
| | DEC. . | 16 0 25 | 15 16 52 | | OCT. . | 14 14 7 | 14 13 37 |
| | | | | | NOV. . | 13 2 51 | 13 10 7 |
| | | | | | DEC. . | 12 15 35 | 13 0 17 |
| 1800. | JAN. . | 14 13 9 | 14 5 35 | | | | |
| A.G. | FEB. . | 13 1 53 | 12 19 36 | | | | |
| 8 22 28 | MAR. . | { 13 14 37 | 13 10 43 | 1803. | JAN. . | 11 4 19 | 11 12 50 |
| | ○ | { 23 8 59 | 23 13 54 | D. | FEB. . | 9 17 3 | 9 23 49 |
| | APRIL | 12 3 21 | 12 2 36 | 9 15 54 | MAR. . | 11 5 47 | 11 9 23 |
| | MAY . | 11 16 5 | 11 13 38 | | APRIL | 9 18 31 | 9 17 59 |
| | JUNE . | 10 4 49 | 10 10 3 | | MAY . | 9 7 15 | 9 2 19 |
| | JULY . | 9 17 33 | 10 0 14 | | JUNE . | 7 19 59 | 7 11 18 |
| | AUG. . | 8 6 17 | 8 12 56 | | JULY . | 7 8 43 | 6 21 56 |
| | SEPT. . | { 6 19 1 | 7 0 19 | | AUG. . | 5 21 27 | 5 10 53 |
| | ○ | { 21 13 23 | 21 0 4 | | SEPT. . | 4 10 11 | 4 2 13 |
| | OCT. . | 6 7 45 | 6 10 57 | | OCT. . | 3 22 55 | 3 19 36 |
| | NOV. . | 4 20 29 | 4 21 24 | | NOV. . | 2 11 39 | 2 13 46 |
| | DEC. . | 4 9 14 | 4 8 1 | | DEC. . | { 2 0 23 | 2 7 33 |
| | | | | | | { 31 13 7 | 31 23 46 |
| 1801. | JAN. . | 2 21 58 | 2 13 58 | | | | |
| F. | FEB. . | 1 10 42 | 1 6 14 | | ○ | { 15 7 30 | 14 23 31 |
| 9 4 17 | MAR. . | { 2 23 26 | 2 13 1 | 1804. | JAN. . | { 30 1 52 | 30 13 47 |
| | ○ | { 17 17 43 | 18 7 43 | C.B. | FEB. . | 28 14 36 | 29 1 20 |
| | APRIL | 1 12 10 | { 1 6 33 | 8 21 43 | MAR. . | 29 3 20 | 29 10 43 |
| | | | { 30 20 6 | | APRIL | 27 16 4 | 27 13 35 |
| | MAY . | { 30 13 33 | 30 10 42 | | MAY . | 27 4 48 | 27 1 44 |
| | JUNE . | 29 2 22 | 29 2 0 | | JUNE . | 25 17 32 | 25 9 17 |
| | JULY . | 28 15 6 | 28 17 22 | | ○ | { 10 11 54 | 10 19 55 |
| | AUG. . | 27 3 50 | 27 8 13 | | JULY . | { 25 6 16 | 24 13 17 |
| | ○ | { 10 22 12 | 10 9 24 | | AUG. . | 23 19 0 | 23 5 43 |
| | SEPT. . | { 25 16 34 | 25 22 10 | | SEPT. . | 22 7 44 | 21 20 5 |
| | OCT. . | 25 5 13 | 25 11 8 | | OCT. . | 21 20 28 | 21 13 14 |
| | NOV. . | 23 18 2 | 23 23 16 | | NOV. . | 20 9 12 | 20 8 11 |
| | DEC. . | 23 6 46 | 23 10 42 | | DEC. . | 19 21 56 | 20 3 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1805. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1808. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | ○ | | | E.D. | | | |
| March. | JAN. . | { 8 16 18 | 3 10 56 | March. | JAN. . | 16 1 51 | 15 18 26 |
| <i>d. h. m.</i> | FEB. . | { 18 10 41 | 18 21 25 | <i>d. h. m.</i> | FEB. . | 14 14 35 | 14 11 11 |
| 9 3 32 | MAR. . | 16 23 25 | 17 12 53 | 8 20 59 | MAR. . | 15 3 19 | 15 4 37 |
| | MAR. . | 18 12 9 | 19 1 24 | | APRIL | { 13 16 3 | 13 21 40 |
| | APRIL | 17 0 53 | 17 11 10 | | ○ | { 28 10 25 | 28 10 7 |
| | MAY . | 16 13 37 | 16 18 56 | | MAY . | 13 4 47 | 13 13 22 |
| | JUNE . | { 15 2 21 | 15 1 41 | | JUNE . | 11 17 31 | 12 3 3 |
| | ○ | { 29 20 43 | 29 23 31 | | JULY . | 11 6 15 | 11 14 36 |
| | JULY . | 14 15 5 | 14 8 31 | | AUG. . | 9 13 59 | 10 0 33 |
| | AUG. . | 13 3 49 | 12 16 31 | | SEPT. . | 8 7 43 | 8 9 41 |
| | SEPT. . | 11 16 33 | 11 2 43 | | OCT. . | { 7 20 27 | 7 18 49 |
| | OCT. . | 11 5 17 | 10 16 12 | | ○ | { 22 14 49 | 22 10 51 |
| | NOV. . | 9 18 1 | 9 8 2 | | NOV. . | 6 9 11 | 6 4 37 |
| | DEC. . | { 9 6 45 | 9 2 36 | | DEC. . | 5 21 55 | 5 15 27 |
| | ○ | { 24 1 7 | 24 2 21 | | | | |
| 1806. | JAN. . | 7 19 30 | 7 22 11 | 1809. | JAN. . | 4 10 39 | 4 3 27 |
| G. | FEB. . | 6 8 13 | 6 17 4 | C. | FEB. . | 2 23 23 | 2 16 37 |
| 9 9 21 | MAR. . | 7 20 57 | 8 9 48 | 9 2 47 | MAR. . | 4 12 7 | 4 6 55 |
| | APRIL | 6 9 41 | 6 23 32 | | APRIL | { 3 0 51 | 2 22 11 |
| | MAY . | 5 22 25 | 6 10 16 | | ○ | { 17 19 13 | 18 3 5 |
| | JUNE . | 4 11 9 | 4 18 41 | | MAY . | 2 13 35 | 2 14 1 |
| | JULY . | 3 23 53 | 4 1 44 | | JUNE . | { 1 2 19 | 1 5 43 |
| | AUG. . | 2 12 37 | { 2 8 36 | | ○ | { 30 15 3 | 30 20 37 |
| | SEPT. . | { 1 1 21 | { 31 16 19 | | JULY . | 30 3 47 | 30 10 13 |
| | ○ | { 30 14 5 | 30 1 49 | | AUG. . | 28 16 31 | 28 22 24 |
| | OCT. . | 30 2 49 | 29 13 50 | | SEPT. . | 27 5 15 | 27 9 43 |
| | NOV. . | 23 15 33 | 23 4 36 | | ○ | { 11 23 37 | 11 11 33 |
| | DEC. . | 23 4 17 | 27 21 48 | | OCT. . | { 26 17 59 | 26 20 26 |
| 1807. | JAN. . | 26 17 2 | 26 16 29 | | NOV. . | 25 6 43 | 25 7 7 |
| F. | FEB. . | 25 5 46 | 25 11 13 | | DEC. . | 24 19 27 | 24 17 56 |
| 9 15 10 | MAR. . | 26 13 30 | 27 4 34 | 1810. | JAN. . | 23 8 11 | 23 4 56 |
| | APRIL | 25 7 14 | 25 19 29 | B. | FEB. . | 21 20 55 | 21 16 12 |
| | ○ | { 10 1 36 | 9 19 7 | 9 8 33 | MAR. . | 23 9 40 | 23 4 2 |
| | MAY . | { 24 19 58 | 25 7 39 | | APRIL | 21 22 24 | 21 16 46 |
| | JUNE . | 23 8 42 | 23 17 21 | | MAY . | 21 11 8 | 21 6 38 |
| | JULY . | 22 21 26 | 23 1 20 | | JUNE . | 19 23 52 | 19 21 31 |
| | AUG. . | 21 10 10 | 21 9 9 | | JULY . | 19 12 36 | 19 12 59 |
| | SEPT. . | 19 22 54 | 19 17 15 | | AUG. . | 18 1 20 | 18 4 20 |
| | OCT. . | 19 11 38 | 19 2 39 | | SEPT. . | 16 14 4 | 16 19 2 |
| | ○ | { 3 6 0 | 3 10 36 | | OCT. . | 16 2 48 | 16 8 58 |
| | NOV. . | { 18 0 22 | 17 13 51 | | NOV. . | 14 15 32 | 14 21 36 |
| | DEC. . | 17 13 6 | 17 3 9 | | DEC. . | 14 4 16 | 14 9 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1811. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1814. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 12 17 0 | 12 20 38 | D. | JAN. . | 9 8 10 | 9 16 43 |
| March. | FEB. . | { 11 5 44 | 11 7 0 | March. | FEB. . | 7 20 54 | 8 9 32 |
| <i>d. h. m.</i> | ○ | { 26 0 6 | 26 8 40 | <i>d. h. m.</i> | MAR. . | 9 9 38 | 9 23 30 |
| 9 14 25 | MAR. . | 12 18 28 | 12 16 48 | | APRIL | 7 22 22 | 8 10 28 |
| | APRIL | 11 7 12 | 11 2 29 | | MAY . | 7 11 6 | 7 19 2 |
| | MAY . | 10 19 56 | 10 12 46 | | JUNE . | 5 23 50 | 6 2 6 |
| | JUNE . | 9 8 40 | 9 0 23 | | JULY . | 5 12 34 | 5 8 44 |
| | JULY . | 8 21 24 | 8 13 48 | | AUG. . | 4 1 18 | 3 16 3 |
| | AUG. . | { 7 10 8 | 7 4 58 | | SEPT. . | 2 14 2 | 2 1 7 |
| | ○ | { 22 4 30 | 22 0 39 | | OCT. . | { 2 2 46 | 1 12 47 |
| | SEPT. . | 5 22 52 | 5 21 24 | | | { 31 15 30 | 31 3 33 |
| | OCT. . | 5 11 36 | 5 14 13 | | NOV. . | 30 4 14 | 29 21 5 |
| | NOV. . | 4 0 20 | 4 6 32 | | ○ | { 14 22 36 | 15 1 21 |
| | DEC. . | 3 13 4 | 3 21 38 | | DEC. . | { 29 16 58 | 29 16 20 |
| 1812. | JAN. . | { 2 1 49 | 2 11 9 | 1815. | JAN. . | 28 5 43 | 28 11 44 |
| G.F. | FEB. ○ | { 31 14 33 | 31 22 54 | C. | FEB. . | 26 18 27 | 27 5 36 |
| 8 20 14 | MAR. . | { 1 3 17 | 1 9 0 | 9 13 40 | MAR. . | 28 7 11 | 28 20 49 |
| | APRIL | { 30 16 1 | 30 17 48 | | APRIL | 26 19 55 | 27 8 57 |
| | MAY . | 29 4 45 | 29 1 56 | | MAY . | 26 8 39 | 26 18 23 |
| | JUNE . | 28 17 29 | 28 10 17 | | ○ | { 10 3 1 | 9 20 23 |
| | JULY . | 27 6 13 | 26 19 52 | | JUNE . | { 24 21 23 | 25 2 0 |
| | ○ | { 10 13 19 | 10 17 7 | | JULY . | 24 10 7 | 24 8 54 |
| | AUG. . | { 25 7 41 | 24 21 46 | | AUG. . | 22 22 51 | 22 16 11 |
| | SEPT. . | 23 20 25 | 23 14 21 | | SEPT. . | 21 11 35 | 21 0 50 |
| | OCT. . | 23 9 9 | 23 8 28 | | OCT. . | 21 0 19 | 20 11 37 |
| | NOV. . | 21 21 53 | 22 2 48 | | NOV. . | 19 13 3 | 19 1 3 |
| | DEC. . | 21 10 37 | 21 20 6 | | ○ | { 4 7 25 | 4 15 15 |
| 1813. | JAN. . | 19 23 22 | 20 11 20 | 1816. | JAN. . | 17 14 32 | 17 11 3 |
| E. | ○ | { 8 17 44 | 8 11 9 | B.A. | FEB. . | 16 3 16 | 16 5 45 |
| 9 2 3 | FEB. . | { 18 12 6 | 19 0 3 | 8 19 29 | MAR. . | 16 16 0 | 16 23 47 |
| | MAR. . | 20 0 50 | 20 10 21 | | APRIL | 15 4 44 | 15 15 55 |
| | APRIL | 18 13 34 | 18 13 42 | | MAY . | { 14 17 23 | 15 5 25 |
| | MAY . | 18 2 18 | 18 1 57 | | ○ | { 29 11 50 | 29 3 37 |
| | JUNE . | 16 15 2 | 16 9 4 | | JUNE . | 13 6 12 | 13 16 18 |
| | JULY . | { 16 3 46 | 15 17 9 | | JULY . | 12 18 56 | 13 1 14 |
| | ○ | { 30 22 8 | 31 5 18 | | AUG. . | 11 7 40 | 11 9 9 |
| | AUG. . | 14 16 30 | 14 3 16 | | SEPT. . | 9 20 24 | 9 17 5 |
| | SEPT. . | 13 5 14 | 12 16 12 | | OCT. . | 9 9 8 | 9 1 57 |
| | OCT. . | 12 17 53 | 12 8 9 | | NOV. . | { 7 21 52 | 7 12 19 |
| | NOV. . | 11 6 42 | 11 2 28 | | ○ | { 22 16 14 | 22 25 6 |
| | DEC. . | 10 19 26 | 10 21 52 | | DEC. . | { 7 10 36 | 7 0 34 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------------|------------------------------------|------------------------------------|----------------------------|---------------|------------------------------------|------------------------------------|
| A.D. 1817. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1820. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | | | | D.C. | | | |
| March. | JAN. . | 5 23 20 | 5 14 47 | March. | JAN. . | 3 14 30 | 3 19 33 |
| <i>d. h. m.</i> | FEB. . | 4 12 4 | 4 6 39 | <i>d. h. m.</i> | FEB. . | 2 3 14 | 2 6 18 |
| 9 1 18 | MAR.. | 6 0 48 | 5 23 36 | 8 13 44 | MAR.. | { 2 15 58 | 2 16 10 |
| | APRIL | 4 13 32 | 4 16 46 | O | | { 17 10 20 | 17 20 56 |
| | MAY . | 4 2 16 | 4 9 6 | APRIL | | { 1 4 42 | 1 1 34 |
| | JUNE . | 2 15 0 | 2 23 48 | | | { 30 17 26 | 30 11 12 |
| | JULY . | { 2 3 44 | 2 12 30 | MAY . | | 30 6 10 | 29 21 51 |
| | | { 31 16 28 | 31 23 21 | JUNE . | | 28 18 54 | 28 10 12 |
| | AUG.. | 30 5 12 | 30 9 0 | JULY . | | 28 7 38 | 28 0 30 |
| | SEPT.. | 28 17 56 | 23 18 16 | AUG.. | | 26 20 22 | 26 16 31 |
| | OCT. . | 28 6 40 | 23 3 54 | O | | { 10 14 44 | 10 8 36 |
| | NOV. . | 26 19 24 | 26 14 20 | SEPT.. | | { 25 9 6 | 25 9 23 |
| | DEC. . | 26 8 8 | 26 1 43 | OCT. . | | 24 21 50 | 25 2 24 |
| | | | | NOV. . | | 23 10 34 | 23 18 27 |
| | | | | DEC. . | | 22 23 18 | 23 8 56 |
| 1818. | JAN. . | 24 20 53 | 24 14 9 | | | | |
| F. | FEB. . | 23 9 37 | 23 3 39 | | | | |
| 9 7 7 | MAR.. | 24 22 21 | 24 18 10 | 1821. | JAN. . | 21 12 2 | 21 21 36 |
| | O | { 8 16 43 | 9 2 49 | B. | FEB. . | 20 0 46 | 20 8 24 |
| | APRIL | { 23 11 5 | 23 9 31 | 9 0 33 | MAR.. | 21 13 31 | 21 17 37 |
| | MAY . | 22 23 49 | 23 1 13 | | APRIL | 20 2 15 | 20 1 48 |
| | JUNE . | 21 12 33 | 21 16 34 | | MAY . | 19 14 59 | 19 9 44 |
| | JULY . | 21 1 17 | 21 6 53 | | JUNE . | 18 3 43 | 17 18 25 |
| | AUG.. | 19 14 1 | 19 20 6 | | JULY . | 17 16 27 | 17 4 52 |
| | SEPT.. | 18 2 45 | 18 8 5 | | AUG.. | 16 5 11 | 15 17 49 |
| | O | { 2 21 7 | 2 7 42 | | SEPT.. | 14 17 55 | 14 9 23 |
| | OCT. . | { 17 15 29 | 17 19 17 | | OCT. . | 14 6 39 | 14 3 1 |
| | NOV. . | 16 4 13 | 16 6 9 | | NOV. . | 12 19 23 | 12 21 37 |
| | DEC. . | 15 16 57 | 15 17 0 | | DEC. . | 12 8 7 | 12 15 46 |
| | | | | | | | |
| 1819. | JAN. . | 14 5 42 | 14 3 52 | 1822. | JAN. . | { 10 20 51 | 11 8 12 |
| E. | FEB. . | 12 18 26 | 12 14 48 | A. | O | { 25 15 13 | 25 7 55 |
| 9 12 56 | MAR.. | { 14 7 10 | 14 2 3 | | FEB. . | 9 9 35 | 9 22 12 |
| | O | { 29 1 32 | 29 15 31 | 9 6 22 | MAR.. | 10 22 20 | 11 9 35 |
| | APRIL | 12 19 54 | 12 13 58 | | APRIL | 9 11 4 | 9 18 41 |
| | MAY . | 12 8 38 | 12 2 59 | | MAY . | 8 23 48 | 9 2 14 |
| | JUNE . | 10 21 22 | 10 17 14 | | JUNE . | 7 12 32 | 7 9 11 |
| | JULY . | 10 10 6 | 10 8 26 | | JULY . | { 7 1 16 | 6 16 35 |
| | AUG.. | 8 22 50 | 9 0 3 | | O | { 21 19 38 | 22 2 49 |
| | SEPT.. | { 7 11 34 | 7 15 23 | | AUG.. | 5 14 0 | 5 1 33 |
| | O | { 22 5 56 | 21 17 18 | | SEPT.. | 4 2 44 | 3 13 3 |
| | OCT. . | 7 0 18 | 7 5 57 | | OCT. . | 3 15 28 | 3 3 35 |
| | NOV. . | 5 13 2 | 5 19 31 | | NOV. . | 2 4 12 | 1 20 56 |
| | DEC. . | 5 1 46 | 5 8 4 | | DEC. . | { 1 16 56 | 1 16 5 |
| | | | | | | { 31 5 40 | 31 11 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|------------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1823. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1826. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | ○ | { 15 0 2 | 14 19 46 | c. | JAN. . | 26 9 38 | 26 2 33 |
| March. | JAN. . | { 29 18 24 | 30 5 29 | March. | FEB. . | 24 22 17 | 24 18 54 |
| <i>d. h. m.</i> | FEB. . | 28 7 8 | 28 20 53 | <i>d. h. m.</i> | MAR. . | 26 11 2 | 26 11 48 |
| 9 12 11 | MAR. . | 29 19 52 | 30 9 14 | 9 5 37 | APRIL | 24 23 46 | 25 4 28 |
| | APRIL | 28 8 36 | 28 18 49 | ○ | { 9 18 8 | 9 17 48 | |
| | MAY . | 27 21 20 | 28 2 26 | MAY . | { 24 12 30 | 24 20 0 | |
| | JUNE . | 26 10 4 | 26 9 8 | JUNE . | 23 1 14 | 23 9 47 | |
| | ○ | { 11 4 26 | 11 5 59 | JULY . | 22 13 58 | 22 21 40 | |
| | JULY . | { 25 22 48 | 25 16 0 | AUG. . | 21 2 42 | 21 8 3 | |
| | AUG. . | 24 11 32 | 24 0 7 | SEPT. . | 19 15 26 | 19 17 39 | |
| | SEPT. . | 23 0 16 | 22 10 30 | OCT. . | 19 4 10 | 19 3 16 | |
| | OCT. . | 22 13 0 | 21 23 47 | ○ | { 2 22 32 | 2 18 28 | |
| | NOV. . | 21 1 44 | 20 16 3 | NOV. . | { 17 16 54 | 17 13 25 | |
| | DEC. . | 20 14 28 | 20 10 36 | DEC. . | 17 5 38 | 17 0 21 | |
| | ○ | { 4 8 51 | 4 11 20 | | | | |
| 1824. | JAN. . | { 19 3 13 | 19 6 24 | 1827. | JAN. . | 15 18 22 | 15 12 10 |
| P.E. | FEB. . | 17 15 57 | 18 0 48 | B. | FEB. . | 14 7 6 | 14 0 54 |
| 8 16 0 | MAR. . | 18 4 41 | 18 17 22 | 9 11 26 | MAR. . | 15 19 51 | 15 14 37 |
| | APRIL | 16 17 25 | 17 6 57 | | APRIL | { 14 8 35 | 14 5 18 |
| | MAY . | 16 6 9 | 16 17 37 | ○ | { 29 2 57 | 29 10 49 | |
| | JUNE . | { 14 18 53 | 15 2 1 | MAY . | 13 21 19 | 13 20 40 | |
| | ○ | { 29 13 15 | 29 6 45 | JUNE . | 12 10 3 | 12 12 11 | |
| | JULY . | 14 7 37 | 14 9 13 | JULY . | 11 22 47 | 12 3 12 | |
| | AUG. . | 12 20 21 | 12 16 18 | AUG. . | 10 11 31 | 10 17 11 | |
| | SEPT. . | 11 9 5 | 11 0 16 | SEPT. . | 9 0 15 | 9 6 0 | |
| | OCT. . | 10 21 49 | 10 10 3 | OCT. . | { 8 12 59 | 8 17 49 | |
| | NOV. . | 9 10 38 | 8 22 11 | ○ | { 23 7 21 | 22 19 20 | |
| | DEC. . | 8 23 17 | 8 12 57 | NOV. . | 7 1 43 | 7 5 4 | |
| | | | | DEC. . | 6 14 27 | 6 16 3 | |
| 1825. | JAN. . | 7 12 1 | 7 5 56 | | | | |
| D. | FEB. . | 6 0 45 | 6 0 15 | 1828. | JAN. . | 5 3 11 | 5 2 54 |
| 8 23 9 | MAR. . | 7 18 29 | 7 18 37 | A.G. | FEB. . | 3 15 55 | 3 13 40 |
| | APRIL | 6 2 13 | 6 11 41 | 8 17 15 | MAR. . | 4 4 39 | 4 0 23 |
| | MAY . | { 5 14 57 | 6 2 28 | | APRIL | 2 17 23 | 2 11 42 |
| | ○ | { 20 9 19 | 20 2 25 | | MAY . | { 2 6 7 | 1 23 50 |
| | JUNE . | 4 3 41 | 4 14 38 | | { 31 18 51 | 31 13 16 | |
| | JULY . | 3 16 25 | 4 0 32 | | JUNE . | 30 7 35 | 30 3 57 |
| | AUG. . | { 2 5 9 | 2 8 53 | | JULY . | 29 20 19 | 29 19 31 |
| | { 31 17 53 | 31 16 59 | | | AUG. . | 28 9 3 | 28 11 16 |
| | SEPT. . | 30 6 37 | 30 1 28 | | SEPT. . | 26 21 47 | 27 2 33 |
| | OCT. . | 29 19 21 | 29 11 12 | | OCT. . | 26 10 31 | 26 16 56 |
| | ○ | { 18 13 43 | 18 18 33 | | NOV. . | 24 23 15 | 25 6 14 |
| | NOV. . | { 23 8 5 | 27 22 33 | | DEC. . | 24 11 59 | 24 13 24 |
| | DEC. . | 27 20 49 | 27 11 44 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|----------|------------------------------------|------------------------------------|
| A.D. 1829. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1832. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 23 0 44 | 23 5 31 | C.B. | JAN. . | 20 15 54 | 21 0 45 |
| March. | FEB. . | 21 13 28 | 21 15 36 | March. | FEB. . | 19 4 38 | 19 17 32 |
| <i>d. h. m.</i> | ○ | { 8 7 50 | 8 16 9 | <i>d. h. m.</i> | MAR. . | 19 17 22 | 20 7 21 |
| 8 23 4 | MAR. . | { 23 2 12 | 23 0 57 | 8 16 30 | APRIL | 18 6 6 | 18 18 10 |
| | APRIL | 21 14 56 | 21 10 7 | | MAY . | 17 18 50 | 18 2 35 |
| | MAY . | 21 3 40 | 20 19 55 | | JUNE . | 16 7 34 | 16 9 34 |
| | JUNE . | 19 16 24 | 19 7 11 | | JULY . | 15 20 18 | 15 16 13 |
| | JULY . | 19 5 8 | 18 20 26 | | AUG. . | 14 9 2 | 13 23 39 |
| | AUG. . | 17 17 52 | 17 11 42 | | SEPT. . | 12 21 46 | 12 8 53 |
| | ○ | { 1 12 14 | 1 8 31 | | OCT. . | 12 10 30 | 11 20 45 |
| | SEPT. . | { 16 6 36 | 16 4 29 | | NOV. . | 10 23 14 | 10 11 36 |
| | OCT. . | 15 19 20 | 15 21 48 | | DEC. . | { 10 11 58 | 10 5 8 |
| | NOV. . | 14 8 4 | 14 14 39 | | ○ | { 25 6 20 | 25 10 19 |
| | DEC. . | 13 20 48 | 14 6 11 | | | | |
| 1830. | JAN. . | 12 9 33 | 12 19 53 | 1833. | JAN. . | 9 0 42 | 9 0 17 |
| E. | FEB. . | { 10 22 17 | 11 7 32 | A. | FEB. . | 7 13 27 | 7 19 31 |
| | ○ | { 23 16 39 | 25 15 50 | 8 22 19 | MAR. . | 9 2 11 | 9 13 11 |
| 9 4 52 | MAR. . | 12 11 1 | 12 17 21 | | APRIL | 7 14 55 | 8 4 13 |
| | APRIL | 10 23 45 | 11 1 46 | | MAY . | 7 3 39 | 7 16 16 |
| | MAY . | 10 12 29 | 10 9 4 | | JUNE . | { 5 16 23 | 6 1 42 |
| | JUNE . | 9 1 13 | 8 17 33 | | ○ | { 20 10 45 | 20 3 2 |
| | JULY . | 8 13 57 | 8 2 53 | | JULY . | 5 5 7 | 5 9 24 |
| | AUG. . | { 7 2 41 | 6 14 29 | | AUG. . | 3 17 51 | 3 16 31 |
| | ○ | { 21 21 3 | 22 0 44 | | SEPT. . | 2 6 35 | 2 0 3 |
| | SEPT. . | 5 15 25 | 5 4 49 | | OCT. . | { 1 19 19 | 1 8 59 |
| | OCT. . | 5 4 9 | 4 21 40 | | { 31 8 3 | 30 20 0 | |
| | NOV. . | 3 16 53 | 3 16 8 | | Nov. . | 29 20 47 | 29 9 29 |
| | DEC. . | 3 5 37 | 3 10 52 | | ○ | { 14 15 9 | 14 23 57 |
| | | | | | DEC. . | { 29 9 31 | 29 1 20 |
| 1831. | JAN. . | { 1 18 21 | 2 4 26 | 1834. | JAN. . | 27 22 15 | 27 18 57 |
| D. | FEB. ○ | { 31 7 5 | 31 19 44 | G. | FEB. . | 26 10 59 | 26 13 17 |
| | | 15 1 27 | 14 19 15 | 9 4 8 | MAR. . | 27 23 43 | 28 6 57 |
| 9 10 41 | MAR. . | { 1 19 49 | 2 8 19 | | APRIL | 26 12 27 | 26 22 52 |
| | | { 31 8 33 | 31 18 22 | | MAY . | 26 1 11 | 26 12 20 |
| | APRIL | 29 21 17 | 30 2 27 | | ○ | { 9 19 33 | 9 10 43 |
| | MAY . | 29 10 1 | 29 9 23 | | JUNE . | { 24 13 55 | 24 23 22 |
| | JUNE . | 27 22 45 | 27 16 25 | | JULY . | 24 2 39 | 24 8 33 |
| | JULY . | 27 11 29 | 27 0 27 | | AUG. . | 22 15 23 | 22 16 50 |
| | ○ | { 11 5 51 | 11 12 25 | | SEPT. . | 21 4 7 | 21 1 12 |
| | AUG. . | { 26 0 13 | 25 10 37 | | OCT. . | 20 16 51 | 20 10 25 |
| | SEPT. . | 24 12 57 | 23 23 40 | | NOV. . | 19 5 35 | 18 21 2 |
| | OCT. . | 24 1 41 | 23 15 47 | | ○ | { 3 23 57 | 4 7 13 |
| | NOV. . | 22 14 25 | 22 10 17 | | DEC. . | { 13 18 19 | 13 9 16 |
| | DEC. . | 22 3 9 | 22 5 50 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|----------|------------------------------------|------------------------------------|
| A.D. 1835. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1838. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | | | | B. | | | |
| March. | JAN. . | 17 7 3 | 16 23 11 | March. | JAN. . | 13 22 14 | 14 4 33 |
| <i>d. h. m.</i> | FEB. . | 15 19 47 | 15 14 35 | <i>d. h. m.</i> | FEB. . | 12 10 58 | 12 15 0 |
| 9 9 57 | MAR. . | 17 8 32 | 17 7 0 | 9 3 23 | MAR. . | 13 23 42 | 14 0 23 |
| | APRIL | 15 21 16 | 15 23 40 | ○ | | 28 18 4 | 29 4 12 |
| | MAY . | 15 10 0 | 15 15 45 | APRIL | | 12 12 26 | 12 9 21 |
| | ○ | 30 4 22 | 30 1 7 | MAY . | | 12 1 10 | 11 18 33 |
| | JUNE . | 13 22 44 | 14 6 27 | JUNE . | | 10 13 54 | 10 4 47 |
| | JULY . | 13 11 28 | 13 19 22 | JULY . | | 10 2 33 | 9 16 54 |
| | AUG. . | 12 0 12 | 12 6 39 | AUG. . | | 8 15 22 | 8 7 12 |
| | SEPT. . | 10 12 56 | 10 16 49 | SEPT. . | 7 4 6 | 6 23 27 | |
| | OCT. . | 10 1 40 | 10 2 37 | ○ | 21 22 23 | 21 16 44 | |
| | NOV. . | 8 14 24 | 8 12 38 | OCT. . | | 6 16 50 | 6 16 51 |
| | DEC. . | 8 8 8 | 7 23 15 | NOV. . | | 5 5 34 | 5 10 19 |
| | | | | DEC. . | | 4 18 18 | 5 2 49 |
| 1836. | JAN. . | 6 15 53 | 6 10 35 | 1839. | JAN. . | 3 7 2 | 3 17 36 |
| E.D. | FEB. . | 5 4 37 | 4 22 39 | A. | FEB. . | 1 19 46 | 2 6 14 |
| 8 15 45 | MAR. . | 5 17 21 | 5 11 36 | 9 9 12 | MAR. . | 3 8 30 | 3 16 50 |
| | APRIL | 4 6 5 | 4 1 30 | | APRIL | 1 21 14 | 2 1 43 |
| | ○ | 19 0 27 | 19 10 36 | | MAY . | 1 9 53 | 1 9 30 |
| | MAY . | 3 18 49 | 3 16 19 | | ○ | 30 22 42 | 30 17 6 |
| | JUNE . | 2 7 33 | 2 7 41 | | JUNE . | 29 11 26 | 29 1 33 |
| | JULY . | 1 20 17 | 1 23 2 | | JULY . | 29 0 10 | 28 11 53 |
| | ○ | 31 9 1 | 31 13 45 | | AUG. . | 27 12 54 | 27 0 51 |
| | AUG. . | 29 21 45 | 30 8 23 | | SEPT. . | 23 1 33 | 23 16 36 |
| | SEPT. . | 28 10 29 | 28 15 57 | | OCT. . | 25 14 22 | 25 10 33 |
| | ○ | 13 4 51 | 12 15 30 | | NOV. . | 24 3 6 | 24 5 31 |
| | OCT. . | 27 23 13 | 28 3 43 | | DEC. . | 23 15 50 | 23 23 57 |
| | NOV. . | 26 11 57 | 26 15 1 | | | | |
| | DEC. . | 26 0 41 | 26 1 58 | | | | |
| 1837. | JAN. . | 24 18 25 | 24 12 41 | 1840. | JAN. . | 22 4 34 | 22 16 33 |
| C. | FEB. . | 23 2 9 | 22 23 16 | G.F. | ○ | 5 22 56 | 5 16 14 |
| 8 21 31 | MAR. . | 24 14 53 | 24 9 57 | | FEB. . | 20 17 13 | 21 6 29 |
| | ○ | 8 9 15 | 8 23 4 | 8 15 1 | MAR. . | 21 6 3 | 21 17 41 |
| | APRIL | 23 8 37 | 22 21 16 | | APRIL | 19 18 47 | 20 2 31 |
| | MAY . | 22 16 21 | 22 9 47 | | MAY . | 19 7 31 | 19 9 50 |
| | JUNE . | 21 5 5 | 20 23 44 | | JUNE . | 17 20 15 | 17 16 35 |
| | JULY . | 20 17 49 | 20 14 55 | | JULY . | 17 8 59 | 17 0 31 |
| | AUG. . | 19 6 33 | 19 6 49 | | ○ | 1 3 21 | 1 9 44 |
| | SEPT. . | 17 19 17 | 17 22 39 | | AUG. . | 15 21 43 | 15 8 55 |
| | ○ | 2 13 39 | 2 1 22 | | SEPT. . | 14 10 27 | 13 20 32 |
| | OCT. . | 17 8 1 | 17 13 50 | | OCT. . | 13 23 11 | 13 11 13 |
| | NOV. . | 15 20 45 | 16 8 57 | | NOV. . | 12 11 55 | 12 4 44 |
| | DEC. . | 15 9 29 | 15 16 52 | | DEC. . | 12 0 39 | 12 0 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--|------------|------------------------------------|------------------------------------|
| A.D. 1841. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1844. B.A. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 8 20 50 | JAN. . | { 10 13 24 | 10 19 30 | 8 14 16 | JAN. . | 8 4 34 | 7 20 21 |
| | ○ | { 25 7 46 | 25 4 33 | | FEB. . | 6 17 18 | 6 10 50 |
| | FEB. . | 9 2 8 | 9 13 28 | | MAR. . | 7 6 2 | 7 2 30 |
| | MAR. . | 10 14 52 | 11 4 45 | | APRIL | 5 18 46 | 5 18 53 |
| | APRIL | 9 3 36 | 9 16 57 | | MAY . | { 5 7 30 | 5 11 10 |
| | MAY . | 8 16 20 | 9 2 22 | | ○ | { 20 1 52 | 20 1 20 |
| | JUNE . | 7 5 4 | 7 9 54 | | JUNE . | 3 20 14 | 4 2 35 |
| | JULY . | { 6 17 48 | 6 16 36 | | JULY . | 3 8 53 | 3 16 30 |
| | ○ | { 21 12 10 | 21 12 31 | | AUG. . | { 1 21 42 | 2 4 45 |
| | AUG. . | 5 6 32 | 4 23 33 | | { 31 10 26 | 31 15 38 | |
| | SEPT. . | 3 19 16 | 3 7 53 | | SEPT. . | 29 23 10 | 30 1 48 |
| | OCT. . | 3 8 0 | 2 18 23 | | OCT. . | 29 11 54 | 29 11 53 |
| | NOV. . | 1 20 44 | 1 7 52 | | ○ | { 13 6 16 | 13 2 15 |
| | DEC. . | { 1 9 28 | 1 0 10 | | NOV. . | { 23 0 38 | 27 22 20 |
| | | { 30 22 12 | 30 18 37 | | DEC. . | 27 13 22 | 27 9 17 |
| 1842. D. | ○ | { 14 16 34 | 14 20 14 | 1845. G. | JAN. . | 26 2 6 | 25 20 51 |
| 9 2 38 | JAN. . | { 29 10 56 | 29 13 53 | 8 20 5 | FEB. . | 24 14 50 | 24 9 5 |
| | FEB. . | 27 23 40 | 28 8 23 | | MAR. . | 26 3 34 | 25 22 10 |
| | MAR. . | 29 12 24 | 30 0 43 | | APRIL | 24 16 18 | 24 12 16 |
| | APRIL | 23 1 8 | 23 14 12 | | ○ | { 9 10 40 | 9 18 26 |
| | MAY . | 27 13 52 | 28 0 50 | | MAY . | { 24 5 2 | 24 3 13 |
| | JUNE . | 26 2 36 | 26 9 20 | | JUNE . | 22 17 46 | 22 18 36 |
| | ○ | { 10 20 58 | 10 13 19 | | JULY . | 22 6 30 | 22 9 47 |
| | JULY . | { 25 15 20 | 25 16 42 | | AUG. . | 20 19 14 | 21 0 18 |
| | AUG. . | 24 4 4 | 24 0 3 | | SEPT. . | 19 7 53 | 19 13 36 |
| | SEPT. . | 22 16 43 | 22 8 21 | | OCT. . | 18 20 42 | 19 2 2 |
| | OCT. . | 22 5 32 | 21 18 24 | | ○ | { 2 15 4 | 2 3 15 |
| | NOV. . | 20 18 16 | 20 6 41 | | NOV. . | { 17 9 26 | 17 13 46 |
| | DEC. . | 20 7 0 | 19 21 20 | | DEC. . | 16 22 10 | 17 1 0 |
| 1843. C. | JAN. . | 18 19 45 | 18 14 3 | 1846. F. | JAN. . | 15 10 55 | 15 11 50 |
| 9 8 27 | FEB. . | 17 8 29 | 17 7 57 | 9 1 54 | FEB. . | 13 23 39 | 13 22 13 |
| | MAR. . | 18 21 13 | 19 1 54 | | MAR. . | 15 12 23 | 15 8 36 |
| | APRIL | 17 9 57 | 17 18 39 | | APRIL | 14 1 7 | 13 19 16 |
| | MAY . | 16 22 41 | 17 9 21 | | MAY . | 13 13 51 | 13 6 51 |
| | JUNE . | 15 11 25 | 15 21 36 | | JUNE . | 12 2 35 | 11 19 53 |
| | JULY . | 15 0 9 | 15 7 44 | | JULY . | 11 15 19 | 11 10 27 |
| | AUG. . | 13 12 53 | 13 16 32 | | AUG. . | 10 4 3 | 10 2 10 |
| | SEPT. . | 12 1 37 | 12 0 58 | | SEPT. . | 8 16 47 | 8 13 20 |
| | OCT. . | 11 14 21 | 11 9 53 | | OCT. . | 8 5 31 | 8 10 13 |
| | NOV. . | { 10 3 5 | 9 19 54 | | NOV. . | 6 18 15 | 7 1 11 |
| | ○ | { 24 21 27 | 25 2 34 | | DEC. . | 6 6 59 | 6 14 55 |
| | DEC. . | 9 15 49 | 9 7 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1847. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1850. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | 4 19 44 | 5 3 18 | A. | JAN. . | { 1 10 58 | 1 13 51 |
| March. | FEB. . | 3 8 28 | 3 14 18 | March. | FEB. . | { 30 23 37 | 31 8 44 |
| <i>d. h. m.</i> | MAR. . | { 4 21 12 | 5 0 3 | <i>d. h. m.</i> | MAR. . | { 1 12 21 | 2 1 23 |
| 9 7 43 | ○ | { 19 15 34 | 19 23 27 | 9 1 9 | APRIL. | { 31 1 5 | 31 15 2 |
| | APRIL | 3 9 56 | 3 8 58 | | MAY . | 29 13 49 | 30 1 42 |
| | MAY . | 2 22 40 | 2 17 39 | | JUNE . | 29 2 33 | 29 10 0 |
| | JUNE . | 1 11 24 | { 1 3 2 | | JULY . | 27 15 17 | 27 16 58 |
| | JULY . | { 1 0 8 | { 30 13 59 | | AUG. . | 27 4 1 | 26 23 44 |
| | AUG. . | 29 1 36 | 28 18 34 | | SEPT. . | 25 16 45 | 25 7 21 |
| | ○ | { 12 19 58 | 12 16 33 | | OCT. . | 24 5 29 | 23 16 48 |
| | SEPT. . | { 27 14 20 | 27 11 41 | | NOV. . | 23 18 13 | 23 4 52 |
| | OCT. . | 27 3 4 | 27 5 30 | | DEC. . | 22 6 57 | 21 19 47 |
| | NOV. . | 25 15 48 | 25 22 51 | | ○ | { 5 14 8 | 5 19 15 |
| | DEC. . | 25 4 32 | 25 14 44 | | JAN. . | { 20 8 25 | 20 8 11 |
| 1848. | JAN. . | 23 17 16 | 24 4 31 | 1851. | FEB. . | 18 21 9 | 19 3 7 |
| D.C. | FEB. . | 22 6 0 | 22 16 3 | G. | MAR. . | 20 9 54 | 20 20 34 |
| | ○ | { 8 0 22 | 7 23 17 | 9 6 53 | APRIL | 18 22 38 | 19 11 26 |
| 8 13 31 | MAR. . | { 22 18 44 | 23 1 33 | | MAY . | 18 11 22 | 18 23 26 |
| | APRIL | 21 7 28 | 21 9 36 | | JUNE . | 17 0 6 | 17 8 55 |
| | MAY . | 20 20 12 | 20 17 0 | | ○ | { 1 18 28 | 1 9 41 |
| | JUNE . | 19 8 56 | 19 0 46 | | JULY . | { 16 12 50 | 16 16 48 |
| | JULY . | 18 21 40 | 18 9 58 | | AUG. . | 15 1 34 | 15 0 10 |
| | AUG. . | 17 10 24 | 16 21 34 | | SEPT. . | 13 14 18 | 13 8 3 |
| | ○ | { 1 4 46 | 1 8 27 | | OCT. . | 13 8 2 | 12 17 18 |
| | SEPT. . | { 15 23 8 | 15 12 1 | | NOV. . | 11 15 46 | 11 4 31 |
| | OCT. . | 15 11 52 | 15 5 6 | | DEC. . | { 11 4 30 | 10 17 59 |
| | NOV. . | 14 0 36 | 13 23 55 | | ○ | { 25 22 52 | 26 8 37 |
| | DEC. . | 13 13 20 | 13 18 57 | | | | |
| 1849. | JAN. . | 12 2 5 | 12 12 48 | 1852. | JAN. . | 9 17 14 | 9 9 37 |
| B. | FEB. . | { 10 14 49 | 11 4 2 | F.E. | FEB. . | 8 5 59 | 8 2 50 |
| | ○ | { 25 9 11 | 25 3 16 | 8 12 47 | MAR. . | 8 18 43 | 8 20 41 |
| 8 19 20 | MAR. . | 12 3 33 | 12 16 29 | | APRIL | 7 7 27 | 7 13 59 |
| | APRIL | 10 16 17 | 11 2 16 | | MAY . | 6 20 11 | 7 5 42 |
| | MAY . | 10 5 1 | 10 10 7 | | JUNE . | { 5 8 55 | 5 19 11 |
| | JUNE . | 8 17 45 | 8 16 46 | | ○ | { 20 8 17 | 19 17 50 |
| | JULY . | 8 6 29 | 7 23 49 | | JULY . | 4 21 39 | 5 6 25 |
| | AUG. . | { 6 19 13 | 6 7 51 | | AUG. . | 3 10 23 | 3 15 57 |
| | ○ | { 21 13 35 | 21 19 37 | | SEPT. . | 1 28 7 | 2 0 39 |
| | SEPT. . | 5 7 57 | 4 18 7 | | OCT. . | { 1 11 51 | 1 9 23 |
| | OCT. . | 4 20 41 | 4 7 19 | | | { 31 0 35 | 30 19 3 |
| | NOV. . | 3 9 25 | 2 23 36 | | Nov. . | 29 13 19 | 29 5 51 |
| | DEC. . | 2 22 9 | 2 13 13 | | ○ | { 14 7 41 | 14 15 31 |
| | | | | | DEC. . | { 29 2 3 | 28 13 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1853. D. March. d. h. m. 8 18 35 | | d. h. m. | d. h. m. | A.D. 1856. A.G. March. d. h. m. 8 12 2 | | d. h. m. | d. h. m. |
| | JAN. . | 27 14 47 | 27 7 36 | | JAN. . | 25 5 57 | 25 18 21 |
| | FEB. . | 26 3 31 | 25 22 27 | | FEB. . | 23 18 41 | 23 23 31 |
| | MAR. . | 27 16 15 | 27 14 15 | | MAR. . | 21 7 25 | 24 8 38 |
| | APRIL | 26 4 59 | 26 6 26 | | ○ | 8 1 47 | 8 11 17 |
| | MAY . | 25 17 43 | 25 22 16 | | APRIL | 22 20 9 | 22 17 7 |
| | ○ | 9 12 5 | 9 8 31 | | MAY . | 22 8 53 | 22 1 49 |
| | JUNE . | 24 6 27 | 24 13 3 | | JUNE . | 20 21 37 | 20 11 44 |
| | JULY . | 23 19 11 | 24 2 16 | | JULY . | 20 10 21 | 19 23 39 |
| | AUG. . | 22 7 55 | 22 14 1 | | AUG. . | 18 23 5 | 18 14 0 |
| | SEPT. . | 20 20 39 | 21 0 44 | | SEPT. . | 17 11 49 | 17 6 30 |
| | OCT. . | 20 9 23 | 20 11 3 | | ○ | 2 6 11 | 2 1 0 |
| | NOV. . | 18 22 7 | 18 21 28 | | OCT. . | 17 0 33 | 17 0 19 |
| | DEC. . | 18 10 51 | 18 8 13 | | NOV. . | 15 13 17 | 15 18 17 |
| | | | | | DEC. . | 15 2 1 | 15 11 12 |
| 1854. C. 9 0 24 | JAN. . | 16 23 36 | 16 19 24 | 1857. F. 8 17 51 | JAN. . | 18 14 46 | 14 2 11 |
| | FEB. . | 15 12 20 | 15 7 4 | | FEB. . | 12 3 39 | 12 14 43 |
| | MAR. . | 17 1 4 | 16 19 25 | | MAR. . | 18 16 14 | 14 1 10 |
| | APRIL | 15 13 48 | 15 8 41 | | APRIL | 12 4 58 | 12 9 41 |
| | ○ | 30 8 10 | 30 18 15 | | MAY . | 11 17 42 | 11 17 8 |
| | MAY . | 15 2 32 | 14 23 0 | | JUNE . | 10 6 26 | 10 0 26 |
| | JUNE . | 13 15 16 | 13 14 7 | | JULY . | 9 19 10 | 9 8 43 |
| | JULY . | 13 4 0 | 13 5 31 | | AUG. . | 8 7 54 | 7 19 0 |
| | AUG. . | 11 16 44 | 11 20 33 | | SEPT. . | 6 20 38 | 6 8 3 |
| | SEPT. . | 10 5 23 | 10 10 45 | | OCT. . | 6 9 22 | 6 0 0 |
| | OCT. . | 9 13 12 | 9 23 57 | | NOV. . | 4 22 6 | 4 18 14 |
| | ○ | 24 12 34 | 23 23 26 | | DEC. . | 4 10 50 | 4 13 29 |
| | NOV. . | 8 6 56 | 8 12 16 | | | | |
| | DEC. . | 7 19 40 | 7 23 53 | | | | |
| 1855. B. 9 6 13 | JAN. . | 6 8 25 | 6 10 57 | 1858. E. 8 23 40 | JAN. . | 2 23 35 | 3 8 12 |
| | FEB. . | 4 21 9 | 4 21 23 | | FEB. . | 1 12 19 | 2 0 49 |
| | MAR. . | 6 9 53 | 6 5 37 | | ○ | 13 6 41 | 16 0 32 |
| | APRIL | 4 22 37 | 4 17 45 | | MAR. . | 3 1 3 | 3 14 40 |
| | ○ | 19 16 59 | 20 6 23 | | APRIL | 1 13 47 | 2 1 37 |
| | MAY . | 4 11 21 | 4 4 31 | | MAY . | 1 2 31 | 1 10 14 |
| | JUNE . | 3 0 5 | 2 16 34 | | JUNE . | 30 15 15 | 30 17 19 |
| | JULY . | 2 12 49 | 2 6 16 | | JULY . | 29 3 59 | 29 0 0 |
| | AUG. . | 1 1 33 | 131 21 29 | | ○ | 12 11 5 | 12 16 43 |
| | SEPT. . | 30 14 17 | 30 13 42 | | AUG. . | 27 5 27 | 26 16 26 |
| | ○ | 13 21 23 | 13 9 36 | | SEPT. . | 25 18 11 | 25 4 11 |
| | OCT. . | 23 15 45 | 23 21 51 | | OCT. . | 23 6 55 | 24 19 1 |
| | NOV. . | 27 4 29 | 27 12 29 | | NOV. . | 23 19 39 | 23 12 40 |
| | DEC. . | 26 17 13 | 27 1 41 | | DEC. . | 23 8 23 | 23 8 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1859. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1862. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 21 21 7 | 22 3 26 | G. | JAN. . | 18 12 17 | 18 4 55 |
| March. | ○ | { 5 15 29 | 5 13 15 | March. | FEB. . | 17 1 1 | 16 18 54 |
| <i>d. h. m.</i> | FEB. . | { 20 9 51 | 20 21 17 | <i>d. h. m.</i> | MAR. . | 18 13 45 | 18 9 59 |
| 9 5 28 | MAR. . | 21 22 35 | 22 12 26 | 8 22 55 | APRIL | 17 2 29 | 17 1 49 |
| | APRIL | 20 11 19 | 21 0 28 | | MAY . | { 16 15 13 | 16 17 45 |
| | MAY . | 20 0 8 | 20 9 47 | | ○ | { 31 9 35 | 31 8 48 |
| | JUNE . | 18 12 47 | 18 17 17 | | JUNE . | 15 8 57 | 15 9 6 |
| | JULY . | 18 1 31 | 18 0 4 | | JULY . | 14 16 41 | 14 23 13 |
| | ○ | { 1 19 53 | 1 19 5 | | AUG. . | 13 5 25 | 13 11 54 |
| | AUG. . | { 16 14 15 | 16 7 13 | | SEPT. . | 11 18 9 | 11 23 21 |
| | SEPT. . | 15 2 59 | 14 15 47 | | OCT. . | 11 6 53 | 11 10 4 |
| | OCT. . | 14 15 43 | 14 2 34 | | NOV. . | { 9 19 37 | 9 20 34 |
| | NOV. . | 13 4 27 | 12 16 6 | | ○ | { 24 18 59 | 24 10 6 |
| | DEC. . | 12 17 11 | 12 8 21 | | DEC. . | 9 8 21 | 9 7 15 |
| 1860. | JAN. . | { 11 5 56 | 11 2 38 | 1863. | JAN. . | 7 21 5 | 7 18 12 |
| C.B. | ○ | { 26 0 18 | 26 5 6 | F. | FEB. . | 6 9 50 | 6 5 27 |
| 8 11 17 | FEB. . | 9 18 40 | 9 21 37 | 9 4 44 | MAR. . | 7 22 34 | 7 17 10 |
| | MAR. . | 10 7 24 | 10 15 50 | | APRIL | 6 11 18 | 6 5 41 |
| | APRIL | 8 20 8 | 9 7 58 | | MAY . | { 6 0 2 | 5 19 10 |
| | MAY . | 8 8 52 | 8 21 21 | | ○ | { 20 18 24 | 21 1 57 |
| | JUNE . | 6 21 36 | 7 8 0 | | JUNE . | 4 12 46 | 4 9 45 |
| | JULY . | { 6 10 20 | 6 16 39 | | JULY . | 4 1 30 | 4 1 3 |
| | ○ | { 21 4 42 | 20 19 57 | | AUG. . | 2 14 14 | 2 16 27 |
| | AUG. . | 4 23 4 | 5 0 17 | | SEPT. . | { 1 2 53 | 1 7 21 |
| | SEPT. . | 3 11 43 | 3 7 57 | | ○ | { 30 15 42 | 30 21 21 |
| | OCT. . | 3 0 32 | 2 16 33 | | OCT. . | 30 4 26 | 30 10 23 |
| | NOV. . | 1 13 16 | { 1 2 55 | | ○ | { 18 22 43 | 18 11 20 |
| | DEC. . | { 1 2 0 | { 30 15 16 | | NOV. . | { 23 17 10 | 23 22 32 |
| | | { 30 14 44 | 30 5 46 | | DEC. . | 23 5 54 | 23 9 58 |
| 1861. | JAN. . | 29 3 29 | 28 22 6 | 1864. | JAN. . | 26 18 39 | 26 20 42 |
| A. | FEB. . | 27 16 13 | 27 15 32 | E.D. | FEB. . | 25 7 23 | 25 6 49 |
| 8 17 6 | MAR. . | 29 4 57 | 29 9 1 | 8 10 33 | MAR. . | 25 20 7 | 25 16 33 |
| | APRIL | 27 17 41 | 28 1 29 | | APRIL | 24 8 51 | 24 2 43 |
| | MAY . | 27 6 25 | 27 16 7 | | MAY . | 23 21 35 | 23 13 50 |
| | JUNE . | 25 19 9 | 26 4 31 | | JUNE . | 22 10 19 | 22 2 31 |
| | JULY . | 25 7 53 | 25 14 53 | | JULY . | 21 23 3 | 21 17 0 |
| | AUG. . | 23 20 37 | 24 0 11 | | AUG. . | 20 11 47 | 20 8 54 |
| | SEPT. . | 22 9 21 | 22 9 5 | | SEPT. . | 19 0 31 | 19 1 31 |
| | OCT. . | 21 22 5 | 21 13 25 | | OCT. . | 18 13 15 | 18 17 53 |
| | NOV. . | 20 10 49 | 20 4 41 | | NOV. . | 17 1 59 | 17 9 30 |
| | ○ | { 5 5 11 | 5 10 39 | | DEC. . | 16 14 43 | 16 23 33 |
| | DEC. . | { 19 23 33 | 19 16 10 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1865. c. March. d. h. m. 8 16 21 | | d. h. m. | d. h. m. | A.D. 1868. G.F. March. d. h. m. 8 9 48 | | d. h. m. | d. h. m. |
| | JAN. . | 15 3 27 | 15 12 17 | | JAN. . | 12 18 37 | 12 21 46 |
| | FEB. . | 13 16 11 | 13 22 57 | | FEB. . | 11 7 21 | 11 16 33 |
| | MAR. . | { 15 4 55 | 15 8 22 | | MAR. . | 11 20 5 | 12 9 4 |
| | ○ | { 29 23 17 | 30 6 35 | | APRIL | 10 8 49 | 10 22 33 |
| | APRIL | 13 17 39 | 13 16 50 | | MAY . | 9 21 33 | 10 9 7 |
| | MAY . | 13 6 23 | 13 1 5 | | JUNE . | 8 10 17 | 8 17 23 |
| | JUNE . | 11 19 7 | 11 10 7 | | JULY . | 7 23 1 | 8 0 25 |
| | JULY . | 11 7 51 | 10 20 51 | | AUG. . | 6 11 45 | 6 7 21 |
| | AUG. . | 9 20 35 | 9 9 57 | | SEPT. . | 5 0 29 | 4 15 13 |
| | SEPT. . | { 8 9 19 | 8 1 32 | | OCT. . | 4 13 13 | 4 0 45 |
| | ○ | { 23 3 41 | 23 0 41 | | NOV. . | 3 1 57 | 2 13 7 |
| | OCT. . | 7 22 3 | 7 19 0 | | DEC. . | { 2 14 41 | 2 4 3 |
| | NOV. . | 6 10 47 | 6 13 17 | | | { ... | 31 21 23 |
| | DEC. . | 5 23 31 | 6 7 4 | | | | |
| 1866. B. 8 22 10 | JAN. . | 4 12 16 | 4 23 13 | 1869. E. 8 15 37 | JAN. ○ | { 1 3 26 | ... |
| | FEB. . | 3 1 0 | 3 13 3 | | | { 15 21 43 | 16 4 10 |
| | MAR. . | { 4 13 44 | 5 0 25 | | | { 30 16 10 | 30 16 2 |
| | ○ | { 19 8 6 | 19 6 39 | | FEB. . | ... | ... |
| | APRIL | 3 2 23 | 3 9 38 | | MAR. . | { 1 4 54 | 1 10 39 |
| | MAY . | 2 15 12 | 2 17 20 | | | { 30 17 33 | 31 3 49 |
| | JUNE . | { 1 3 56 | 1 0 28 | | APRIL | 29 6 22 | 29 13 32 |
| | | { 30 16 40 | 30 8 1 | | MAY . | 23 19 6 | 29 6 31 |
| | JULY . | 30 5 24 | 29 17 9 | | JUNE . | 27 7 50 | 27 16 8 |
| | AUG. . | 23 18 8 | 23 4 47 | | ○ | { 12 2 12 | 11 16 23 |
| | ○ | { 12 12 30 | 12 16 19 | | JULY . | { 26 20 34 | 27 0 16 |
| | SEPT. . | { 27 6 52 | 26 19 22 | | AUG. . | 25 9 18 | 25 7 53 |
| | OCT. . | 26 19 36 | 26 12 44 | | SEPT. . | 23 22 2 | 23 16 13 |
| | NOV. . | 25 8 20 | 25 7 47 | | OCT. . | 23 10 46 | 23 1 46 |
| | DEC. . | 24 21 4 | 25 3 2 | | NOV. . | 21 23 30 | 21 13 9 |
| 1867. A. 9 3 59 | JAN. . | 23 9 48 | 23 20 52 | 1870. D. 8 21 26 | DEC. . | 21 12 14 | 21 2 33 |
| | FEB. . | 21 22 32 | 22 12 9 | | ○ | { 5 6 36 | 5 17 16 |
| | ○ | { 8 16 54 | 8 11 11 | | JAN. . | { 20 0 58 | 19 17 51 |
| | MAR. . | { 23 11 16 | 24 0 27 | | FEB. . | 18 13 42 | 18 10 36 |
| | APRIL | 22 0 0 | 22 10 1 | | MAR. . | 20 2 26 | 20 3 56 |
| | MAY . | 21 12 44 | 21 17 39 | | APRIL | 18 15 10 | 18 20 53 |
| | JUNE . | 20 1 28 | 20 0 21 | | MAY . | 18 3 54 | 18 12 25 |
| | JULY . | 19 14 12 | 19 7 13 | | JUNE . | 16 16 38 | 17 1 58 |
| | AUG. . | 18 2 56 | 17 15 22 | | ○ | { 1 11 0 | 1 0 57 |
| | ○ | { 1 21 18 | 2 2 55 | | JULY . | { 16 5 22 | 16 13 23 |
| | SEPT. . | { 16 15 40 | 16 1 46 | | AUG. . | 14 18 6 | 14 23 24 |
| | OCT. . | 16 4 24 | 15 15 8 | | SEPT. . | 13 6 50 | 13 8 36 |
| | NOV. . | 14 17 8 | 14 7 31 | | OCT. . | 12 19 34 | 12 17 51 |
| | DEC. . | 14 5 52 | 14 2 12 | | NOV. . | 11 8 18 | 11 3 47 |
| | | | | | DEC. . | { 10 21 2 | 10 14 42 |
| | | | | | ○ | { 25 15 24 | 25 23 44 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1871. c. March. d. h. m. 9 3 14 | | d. h. m. | d. h. m. | A.D. 1874. F. March. d. h. m. 8 20 41 | | d. h. m. | d. h. m. |
| | JAN. . | 9 9 47 | 9 2 45 | | JAN. . | 6 0 57 | 6 10 28 |
| | FEB. . | 7 22 31 | 7 15 55 | | FEB. . | 4 13 41 | 4 22 5 |
| | MAR.. | 9 11 15 | 9 6 12 | | MAR.. | 6 2 25 | 6 8 1 |
| | APRIL | 7 23 59 | 7 21 23 | | APRIL { | 4 15 9 | 4 16 41 |
| | MAY . | 7 12 43 | 7 13 9 | | ○ { | 19 9 31 | 19 13 15 |
| | JUNE . | { 6 1 27 | 6 4 47 | | MAY . | 4 3 53 | 4 0 45 |
| | ○ | { 20 19 49 | 20 15 56 | | JUNE . | 2 16 37 | 2 9 4 |
| | JULY . | 5 14 11 | 5 19 37 | | JULY . | { 2 5 21 | 1 18 42 |
| | AUG. . | 4 2 55 | 4 9 13 | | ○ { | 31 13 5 | 31 6 32 |
| | SEPT. . | 2 15 39 | 2 21 30 | | AUG. . | 30 6 49 | 29 20 56 |
| | ○ | { 2 4 23 | 2 8 43 | | SEPT. . | 23 19 33 | 23 13 44 |
| | OCT. . | { 31 17 7 | 31 19 36 | | ○ | { 13 13 55 | 13 9 24 |
| | NOV. . | 30 5 51 | 30 6 21 | | OCT. . | { 23 8 17 | 23 7 57 |
| | DEC. . | 29 13 35 | 29 17 11 | | NOV. . | 26 21 1 | 27 2 21 |
| | | | | | DEC. . | 26 9 45 | 26 19 34 |
| 1872. B.A. 8 9 3 | JAN. . | 28 7 20 | 28 4 10 | 1875. E. 9 2 30 | JAN. . | 24 22 29 | 25 10 40 |
| | FEB. . | 26 20 4 | 26 15 23 | | FEB. . | 23 11 13 | 23 23 12 |
| | MAR.. | 27 8 48 | 27 3 8 | | MAR.. | 24 23 53 | 25 9 19 |
| | APRIL | 25 21 32 | 25 15 50 | | APRIL | 23 12 42 | 23 17 30 |
| | ○ | { 10 15 54 | 11 1 46 | | MAY . | 23 1 26 | 23 0 40 |
| | MAY . | { 25 10 16 | 25 5 40 | | JUNE . | 21 14 10 | 21 7 47 |
| | JUNE . | 23 23 0 | 23 20 34 | | JULY . | 21 2 54 | 20 15 57 |
| | JULY . | 23 11 44 | 23 12 3 | | AUG. . | 19 15 33 | 19 2 15 |
| | AUG. . | 22 0 23 | 22 3 28 | | SEPT. . | 18 4 22 | 17 15 24 |
| | SEPT. . | 20 18 12 | 20 18 13 | | OCT. . | 17 17 6 | 17 7 34 |
| | OCT. . | 20 1 56 | 20 8 3 | | NOV. . | 16 5 50 | 16 2 2 |
| | ○ | { 8 20 13 | 8 7 33 | | DEC. . | 15 13 34 | 15 21 30 |
| | NOV. . | { 18 14 40 | 18 20 50 | | | | |
| | DEC. . | 13 8 24 | 13 8 43 | | | | |
| 1873. G. 8 14 52 | JAN. . | 16 16 8 | 16 19 52 | 1876. D.C. 8 8 19 | JAN. . | 14 7 13 | 14 16 16 |
| | FEB. . | 15 4 52 | 15 6 8 | | FEB. . | { 12 20 2 | 13 8 55 |
| | MAR.. | 16 17 33 | 16 15 49 | | ○ | { 27 14 24 | 27 8 41 |
| | APRIL | { 15 6 20 | 15 1 25 | | MAR.. | 13 8 46 | 13 22 33 |
| | ○ | { 30 0 42 | 30 13 42 | | APRIL | 11 21 30 | 12 9 24 |
| | MAY . | 14 19 4 | 14 11 40 | | MAY . | 11 10 14 | 11 17 43 |
| | JUNE . | 13 7 43 | 12 23 19 | | JUNE . | 9 22 53 | 10 0 47 |
| | JULY . | 12 20 32 | 12 12 49 | | JULY . | 9 11 42 | 9 7 26 |
| | AUG. . | 11 9 16 | 11 4 7 | | AUG. . | { 8 0 26 | 7 14 51 |
| | SEPT. . | 9 22 0 | 9 20 40 | | ○ | { 22 13 43 | 22 23 45 |
| | OCT. . | { 9 10 44 | 9 13 35 | | SEPT. . | 6 13 10 | 6 0 5 |
| | ○ | { 24 5 6 | 23 17 53 | | OCT. . | 6 1 54 | 5 12 0 |
| | NOV. . | 7 23 28 | 8 5 56 | | NOV. . | 4 14 33 | 4 2 53 |
| | DEC. . | 7 12 12 | 7 21 2 | | DEC. . | 4 3 22 | 3 20 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1877. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1880. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. March. | | | |
| March. | JAN. . | 2 16 7 | 2 15 58 | <i>d. h. m.</i> | JAN. . | 29 20 1 | 29 18 27 |
| <i>d. h. m.</i> | FEB. . | { 1 4 51 | 1 11 16 | 8 7 34 | FEB. . | 28 8 45 | 28 2 54 |
| 8 14 7 | ○ | 15 23 13 | 15 21 51 | | MAR. . | 28 21 29 | 28 17 23 |
| | MAR. . | 2 17 35 | 3 4 58 | | APRIL | 27 10 18 | 27 8 39 |
| | | | | | MAY . | 26 22 57 | 27 0 17 |
| | APRIL | { 1 6 19 | 1 19 57 | | ○ | { 10 17 19 | 10 16 17 |
| | | 30 19 3 | { 1 7 53 | | JUNE . | { 25 11 41 | 25 15 35 |
| | MAY . | 30 7 47 | { 30 17 8 | | JULY . | 25 0 25 | 25 5 59 |
| | JUNE . | 28 20 31 | 29 0 41 | | AUG. . | 23 13 9 | 23 19 8 |
| | JULY . | 28 9 15 | 28 7 38 | | SEPT. . | 22 1 58 | 22 7 9 |
| | ○ | { 12 3 37 | 12 1 44 | | OCT. . | 21 14 87 | 21 18 26 |
| | AUG. . | { 26 21 59 | 26 15 2 | | NOV. . | 20 8 21 | 20 5 23 |
| | SEPT. . | 25 10 43 | 24 23 50 | | ○ | { 4 21 43 | 4 18 2 |
| | OCT. . | 24 23 27 | 24 10 49 | | DEC. . | { 19 16 5 | 19 16 14 |
| | NOV. . | 23 12 11 | 23 0 26 | | | | |
| | DEC. . | 23 0 55 | 22 16 35 | | | | |
| 1878. | JAN. . | 21 13 40 | 21 10 36 | 1881. | JAN. . | 18 4 49 | 18 3 5 |
| A. | ○ | { 5 8 2 | 5 13 53 | D. | FEB. . | 16 17 33 | 16 13 58 |
| | FEB. . | { 20 2 24 | 20 5 14 | 8 13 23 | MAR. . | 18 6 17 | 18 1 7 |
| 8 19 56 | MAR. . | 21 15 8 | 21 23 7 | | APRIL | 16 19 1 | 16 13 0 |
| | APRIL | 20 3 52 | 20 15 2 | | MAY . | { 16 7 45 | 16 1 59 |
| | MAY . | 19 16 36 | 20 4 21 | | ○ | { 31 2 7 | 31 9 23 |
| | JUNE . | 18 5 20 | 18 15 8 | | JUNE . | 14 20 29 | 14 16 15 |
| | JULY . | 17 18 4 | 17 23 59 | | JULY . | 14 9 13 | 14 7 30 |
| | ○ | { 1 12 26 | 1 2 41 | | AUG. . | 12 21 57 | 12 23 9 |
| | AUG. . | { 16 6 43 | 16 7 57 | | SEPT. . | 11 10 41 | 11 14 35 |
| | SEPT. . | 14 19 32 | 14 16 1 | | OCT. . | 10 23 25 | 11 5 11 |
| | OCT. . | 14 8 16 | 14 1 0 | | NOV. . | { 9 12 9 | 9 18 47 |
| | NOV. . | 12 21 0 | 12 11 33 | | ○ | { 24 6 31 | 23 19 30 |
| | DEC. . | 12 9 44 | 11 23 56 | | DEC. . | 9 0 53 | 9 7 21 |
| 1879. | JAN. . | 10 22 23 | 10 14 12 | 1882. | JAN. . | 7 18 38 | 7 18 54 |
| G. | FEB. . | 9 11 12 | 9 6 5 | C. | FEB. . | 6 2 22 | 6 5 38 |
| 9 1 45 | MAR. . | 10 23 56 | 10 22 58 | 8 19 12 | MAR. . | 7 15 6 | 7 15 12 |
| | APRIL | 9 12 40 | 9 16 2 | | APRIL | 6 3 50 | 6 0 30 |
| | MAY . | 9 1 24 | 9 8 12 | | MAY . | 5 16 34 | 5 10 5 |
| | JUNE . | 7 14 8 | 7 22 48 | | JUNE . | 4 5 18 | 3 20 45 |
| | JULY . | 7 2 52 | 7 11 24 | | JULY . | 3 18 2 | 3 9 10 |
| | AUG. . | 5 15 36 | 5 22 14 | | | | |
| | SEPT. . | 4 4 20 | 4 7 56 | | AUG. . | { 2 6 46 | 1 23 35 |
| | OCT. . | 3 17 4 | 3 17 18 | | | { 31 19 30 | 31 15 44 |
| | NOV. . | 2 5 43 | 2 3 3 | | SEPT. . | 30 8 14 | 30 8 49 |
| | | | | | OCT. . | 29 20 53 | 30 1 50 |
| | DEC. ○ | { 1 18 32 | 1 13 34 | | NOV. . | 28 9 42 | 28 17 52 |
| | | { 16 12 54 | 16 18 44 | | DEC. . | 27 22 26 | 23 8 18 |
| | | 31 7 16 | 31 1 0 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1883. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1886. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | 26 11 11 | 26 20 51 | E. | JAN. . | 23 2 21 | 23 5 40 |
| March. | FEB. . | 24 23 55 | 25 7 30 | March. | FEB. . | 21 15 5 | 22 0 16 |
| <i>d. h. m.</i> | MAR. . | 26 12 39 | 23 16 34 | <i>d. h. m.</i> | MAR. . | 23 3 49 | 23 16 35 |
| 9 1 0 | ○ | 10 7 1 | 10 13 37 | 8 18 27 | APRIL | 21 16 33 | 22 5 57 |
| | APRIL | 25 1 23 | 25 0 37 | | MAY . | 21 5 17 | 21 16 27 |
| | MAY . | 24 14 7 | 24 8 30 | | JUNE . | 19 18 1 | 20 0 45 |
| | JUNE . | 23 2 51 | 22 17 13 | | JULY . | 19 6 45 | 19 7 56 |
| | JULY . | 22 15 35 | 22 3 47 | | AUG. . | 17 19 29 | 17 15 4 |
| | AUG. . | 21 4 19 | 20 16 54 | | SEPT. . | 16 8 13 | 15 23 12 |
| | SEPT. . | 19 17 3 | 19 8 40 | | OCT. . | 15 20 57 | 15 9 11 |
| | ○ | 4 11 25 | 4 8 58 | | NOV. . | 14 9 41 | 13 21 31 |
| | OCT. . | 19 5 47 | 19 2 30 | | DEC. . | 13 22 25 | 13 12 24 |
| | NOV. . | 17 18 31 | 17 21 10 | | | | |
| | DEC. . | 17 7 15 | 17 15 17 | | | | |
| 1884. | JAN. . | 15 19 59 | 16 7 38 | 1887. | JAN. . | 12 11 9 | 12 5 28 |
| A.G. | FEB. . | 14 8 43 | 14 21 27 | D. | ○ | 27 5 31 | 27 12 57 |
| 8 6 49 | MAR. . | 14 21 27 | 15 8 36 | 9 0 16 | FEB. . | 10 23 53 | 10 23 45 |
| | ○ | 29 15 49 | 29 13 52 | | MAR. . | 12 12 37 | 12 18 1 |
| | APRIL | 13 10 11 | 13 17 32 | | APRIL | 11 1 21 | 11 10 53 |
| | MAY . | 12 22 55 | 13 0 58 | | MAY . | 10 14 5 | 11 1 30 |
| | JUNE . | 11 11 39 | 11 7 52 | | JUNE . | 9 2 49 | 9 13 31 |
| | JULY . | 11 0 23 | 10 15 19 | | JULY . | 8 15 33 | 8 23 20 |
| | AUG. . | 9 13 7 | 9 0 26 | | ○ | 23 9 55 | 22 23 10 |
| | SEPT. . | 8 1 51 | 7 12 7 | | AUG. . | 7 4 17 | 7 7 46 |
| | ○ | 22 20 13 | 23 0 15 | | SEPT. . | 5 17 1 | 5 15 51 |
| | OCT. . | 7 14 35 | 7 2 54 | | OCT. . | 5 5 45 | 5 0 30 |
| | NOV. . | 6 3 19 | 5 20 27 | | NOV. . | 3 13 29 | 3 10 23 |
| | DEC. . | 5 16 3 | 5 13 42 | | DEC. . | 3 7 13 | 2 21 52 |
| 1885. | JAN. . | 4 4 48 | 4 11 5 | | | | |
| F. | FEB. . | 2 17 32 | 3 4 56 | 1888. | JAN. ○ | 1 19 57 | 1 11 8 |
| 8 12 38 | MAR. . | 4 6 16 | 4 20 8 | C.D. | ○ | 16 14 19 | 17 1 51 |
| | ○ | 19 0 33 | 18 18 59 | | | 31 8 41 | 31 2 2 |
| | APRIL | 2 19 0 | 3 8 15 | | FEB. . | 29 21 26 | 29 13 17 |
| | MAY . | 2 7 44 | 2 17 33 | 8 6 5 | MAR. . | 30 10 10 | 30 11 6 |
| | JUNE . | 30 9 12 | 30 7 48 | | APRIL | 23 22 54 | 23 8 33 |
| | JULY . | 29 21 56 | 29 14 45 | | MAY . | 23 11 33 | 23 19 8 |
| | AUG. . | 28 10 40 | 27 23 1 | | JUNE . | 27 0 22 | 27 3 44 |
| | ○ | 12 5 2 | 12 10 19 | | ○ | 11 18 44 | 11 8 8 |
| | SEPT. . | 26 23 24 | 26 9 36 | | JULY . | 26 13 6 | 26 20 34 |
| | OCT. . | 26 12 8 | 25 23 7 | | AUG. . | 25 1 50 | 25 6 58 |
| | NOV. . | 25 0 52 | 24 15 34 | | SEPT. . | 23 14 34 | 23 16 39 |
| | DEC. . | 24 13 36 | 24 10 12 | | OCT. . | 23 3 13 | 23 2 22 |
| | | | | | NOV. . | 21 16 2 | 21 12 37 |
| | | | | | DEC. . | 21 4 46 | 20 23 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 1889. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1892. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | ○ | { 4 23 8 | 5 7 54 | E.D. | JAN. . | 17 8 41 | 17 19 11 |
| March. | JAN. . | { 19 17 30 | 19 11 27 | March. | FEB. . | 15 21 25 | 16 6 41 |
| <i>d. h. m.</i> | FEB. . | 18 6 14 | 18 0 8 | <i>d. h. m.</i> | MAR. . | 16 10 9 | 16 16 20 |
| 8 11 53 | MAR. . | 19 18 59 | 19 13 49 | 8 5 20 | APRIL | { 14 22 53 | 15 0 37 |
| | APRIL | 18 7 43 | 18 4 26 | ○ | ○ | { 29 17 15 | 30 1 4 |
| | MAY . | 17 20 27 | 17 19 45 | MAY . | MAY . | 14 11 37 | 14 8 17 |
| | JUNE . | 16 9 11 | { 16 11 14 | JUNE . | JUNE . | 13 0 21 | 12 16 18 |
| | ○ | { 1 3 33 | { 30 23 22 | JULY . | JULY . | 12 13 5 | 12 1 45 |
| | JULY . | { 15 21 55 | 16 2 14 | AUG. . | AUG. . | 11 1 49 | 10 13 31 |
| | AUG. . | 14 10 39 | 14 16 14 | SEPT. | SEPT. | 9 14 33 | 9 4 3 |
| | SEPT. . | 12 23 23 | 13 5 5 | OCT. . | { 9 3 17 | 8 21 5 | |
| | OCT. . | 12 12 7 | 12 16 57 | ○ | { 23 21 39 | 23 17 57 | |
| | NOV. . | 11 0 51 | 11 4 17 | NOV. . | NOV. . | 7 16 1 | 7 15 41 |
| | DEC. . | 10 13 35 | 10 15 17 | DEC. . | DEC. . | 7 4 45 | 7 10 26 |
| 1890. | JAN. . | 9 2 19 | 9 2 9 | 1893. | JAN. . | 5 17 29 | 6 3 54 |
| G. | FEB. . | 7 15 3 | 7 12 47 | C. | FEB. . | 4 6 13 | 4 19 3 |
| 8 17 42 | MAR. . | 9 3 47 | 8 23 31 | 8 11 9 | MAR. . | 5 18 57 | 6 7 27 |
| | APRIL | 7 16 31 | 7 10 44 | | APRIL | 4 7 41 | 4 17 17 |
| | MAY . | { 7 5 15 | 6 22 51 | | MAY . | 3 20 25 | 4 1 14 |
| | ○ | { 21 23 37 | 22 9 12 | | JUNE . | 2 9 9 | 2 8 10 |
| | JUNE . | 5 17 59 | 5 12 16 | | JULY . | { 1 21 53 | 1 15 9 |
| | JULY . | 5 6 43 | 5 3 0 | | { 31 10 37 | 30 23 16 | |
| | AUG. . | 3 19 27 | 3 18 38 | | AUG. . | 29 23 21 | 29 9 38 |
| | SEPT. . | 2 8 11 | 2 10 28 | | SEPT. . | 28 12 5 | 27 22 55 |
| | OCT. . | { 1 20 55 | 2 1 49 | | OCT. . | 28 0 49 | 27 15 14 |
| | ○ | { 31 9 39 | 31 16 14 | | NOV. . | 26 13 33 | 26 9 53 |
| | NOV. . | { 15 4 1 | 14 15 47 | | DEC. . | 26 2 17 | 26 5 28 |
| | DEC. . | { 29 22 23 | 30 5 33 | | | | |
| | | 29 11 7 | 29 17 42 | | | | |
| 1891. | JAN. . | 27 23 52 | 23 4 43 | 1894. | JAN. . | 24 15 2 | 25 0 18 |
| F. | FEB. . | 26 12 36 | 26 14 40 | B. | FEB. . | 23 3 46 | 23 16 52 |
| 8 23 31 | MAR. . | 28 1 20 | 27 23 54 | | ○ | { 9 22 8 | 9 16 44 |
| | APRIL | 26 14 4 | 26 9 0 | 8 16 58 | MAR. . | { 24 16 30 | 25 6 27 |
| | ○ | { 11 8 26 | 11 20 50 | | APRIL | 23 5 14 | 23 17 3 |
| | MAY . | { 26 2 48 | 25 18 48 | | MAY . | 22 17 58 | 23 1 19 |
| | JUNE . | 24 15 32 | 24 6 6 | | JUNE . | 21 6 42 | 21 8 14 |
| | JULY . | 24 4 16 | 23 19 28 | | JULY . | 20 19 26 | 20 14 56 |
| | AUG. . | 22 17 0 | 22 10 54 | | AUG. . | 19 8 10 | 18 22 28 |
| | SEPT. . | 21 5 44 | 21 3 48 | | ○ | { 3 2 32 | 3 6 55 |
| | OCT. . | 20 18 28 | 20 21 13 | | SEPT. . | { 17 20 54 | 17 7 55 |
| | ○ | { 4 12 50 | 4 2 30 | | OCT. . | 17 9 38 | 16 19 59 |
| | NOV. . | { 19 7 12 | 19 14 6 | | NOV. . | 15 22 22 | 15 11 3 |
| | DEC. . | 18 19 56 | 19 5 35 | | DEC. . | 15 11 6 | 15 4 44 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1895. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1898. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 13 23 50 | 13 23 53 | D. | JAN. . | 10 15 0 | 10 9 51 |
| March. | FEB. . | 12 12 34 | 12 19 0 | March. | FEB. . | 9 3 44 | 8 21 54 |
| <i>d. h. m.</i> | ○ | 27 6 56 | 27 6 20 | <i>d. h. m.</i> | MAR. . | 10 16 28 | 10 10 46 |
| 8 22 46 | MAR. . | 14 1 13 | 14 12 29 | 8 16 13 | APRIL | 9 5 12 | 9 0 37 |
| | APRIL | 12 14 2 | 13 3 18 | | MAY . | 8 17 56 | 8 15 23 |
| | MAY . | 12 2 46 | 12 15 8 | | JUNE . | 7 6 40 | 7 6 44 |
| | JUNE . | 10 15 30 | 11 0 26 | | ○ | 22 1 2 | 21 23 43 |
| | JULY . | 10 4 14 | 10 8 6 | | JULY . | 6 19 24 | 6 22 3 |
| | AUG. . | 8 16 58 | 8 15 14 | | AUG. . | 5 8 8 | 5 12 46 |
| | ○ | 23 11 20 | 23 8 30 | | SEPT. . | 3 20 52 | 4 2 27 |
| | SEPT. . | 7 5 42 | 6 22 55 | | OCT. . | 3 9 36 | 3 15 5 |
| | OCT. . | 6 18 26 | 6 8 2 | | NOV. . | 1 22 20 | 2 2 55 |
| | NOV. . | 5 7 10 | 4 19 15 | | DEC. ○ | 1 11 4 | 1 14 14 |
| | DEC. . | 4 19 54 | 4 8 52 | | | 16 5 26 | 16 1 59 |
| | | | | | | 30 23 48 | 31 1 13 |
| 1896. | JAN. . | 3 8 39 | 3 0 51 | 1899. | JAN. . | 29 12 32 | 29 11 52 |
| G.F. | FEB. . | 1 21 23 | 1 18 30 | C. | FEB. . | 28 1 16 | 27 22 21 |
| | ○ | 16 15 45 | 16 22 30 | 8 22 2 | MAR. . | 29 14 1 | 29 8 59 |
| 8 4 35 | MAR. . | 2 10 7 | 2 12 43 | | APRIL | 28 2 45 | 27 20 16 |
| | | 31 22 51 | 1 6 15 | | MAY . | 27 15 29 | 27 8 46 |
| | APRIL | 30 11 35 | 30 21 57 | | ○ | 11 9 51 | 11 16 47 |
| | MAY . | 30 0 19 | 30 11 16 | | JUNE . | 26 4 13 | 25 22 44 |
| | JUNE . | 28 13 3 | 28 22 12 | | JULY . | 25 16 57 | 25 12 1 |
| | JULY . | 28 1 47 | 28 7 21 | | AUG. . | 24 5 41 | 24 5 59 |
| | ○ | 11 20 9 | 11 9 30 | | SEPT. . | 22 18 25 | 22 21 55 |
| | AUG. . | 26 14 31 | 26 15 41 | | OCT. . | 22 7 9 | 22 13 9 |
| | SEPT. . | 25 8 15 | 25 0 10 | | NOV. . | 20 19 53 | 21 8 16 |
| | OCT. . | 24 15 59 | 24 9 32 | | ○ | 5 14 15 | 5 8 43 |
| | NOV. . | 23 4 43 | 22 20 17 | | DEC. . | 20 8 37 | 20 16 11 |
| | DEC. . | 22 17 27 | 22 8 33 | | | | |
| 1897. | JAN. . | 21 6 11 | 20 22 35 | 1900. | JAN. . | 13 21 22 | 19 3 46 |
| E. | FEB. . | 19 13 56 | 19 13 58 | B.A. | FEB. . | 17 10 6 | 17 14 6 |
| 8 10 24 | MAR. . | 21 7 40 | 21 6 18 | 8 8 51 | MAR. . | 17 22 50 | 17 23 23 |
| | APRIL | 19 20 24 | 19 22 52 | | APRIL | 16 11 34 | 16 8 17 |
| | MAY . | 19 9 8 | 19 14 50 | | MAY . | 16 0 13 | 15 17 24 |
| | JUNE . | 17 21 52 | 18 5 26 | | ○ | 30 18 40 | 31 5 57 |
| | JULY . | 17 10 36 | 17 13 13 | | JUNE . | 14 13 2 | 14 3 41 |
| | AUG. . | 15 23 20 | 16 5 35 | | JULY . | 14 1 46 | 13 15 53 |
| | SEPT. . | 14 12 4 | 14 15 43 | | AUG. . | 12 14 30 | 12 6 20 |
| | OCT. . | 14 0 48 | 14 1 41 | | SEPT. . | 11 3 14 | 10 22 44 |
| | NOV. . | 12 13 32 | 12 11 49 | | OCT. . | 10 15 58 | 10 16 15 |
| | DEC. . | 12 2 16 | 11 22 31 | | NOV. . | 9 4 42 | 9 9 47 |
| | ○ | 26 20 38 | 27 2 43 | | DEC. . | 8 17 26 | 9 2 16 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1901. G. March. d. h. m. 8 9 39 | | d. h. m. | d. h. m. | A.D. 1904. D.C. March. d. h. m. 8 3 6 | | d. h. m. | d. h. m. |
| | JAN. . | 7 6 10 | 7 16 58 | | JAN. . | 4 21 20 | 4 18 13 |
| | FEB. . | 5 18 54 | 6 5 29 | | FEB. . | 3 10 4 | 3 13 27 |
| | MAR. . | 7 7 38 | 7 15 54 | | MAR. . | 3 22 48 | 4 7 47 |
| | APRIL | 5 20 22 | 6 0 36 | | APRIL | 2 11 32 | 2 23 55 |
| | MAY . | 5 9 6 | 5 8 17 | | MAY . | { 2 0 16 | 2 13 11 |
| | JUNE . | 3 21 50 | 3 15 51 | | | { 31 13 0 | 31 23 39 |
| | JULY . | 3 10 34 | 3 0 21 | | JUNE . | 30 1 44 | 30 8 3 |
| | AUG. . | { 1 23 18 | 1 10 48 | | JULY . | 29 14 28 | 29 15 26 |
| | | { 31 12 2 | 30 23 58 | | AUG. . | 28 3 12 | 27 22 53 |
| | SEPT. . | 30 0 46 | 29 15 57 | | SEPT. . | 26 15 56 | 26 7 21 |
| | ○ | { 14 19 8 | 14 17 43 | | OCT. . | 26 4 40 | 25 17 35 |
| | OCT. . | { 29 13 30 | 29 10 4 | | NOV. . | 24 17 24 | 24 6 1 |
| | NOV. . | 28 2 14 | 28 5 5 | | DEC. . | 24 6 8 | 23 20 48 |
| | DEC. . | 27 14 58 | 27 23 31 | | | | |
| 1902. F. 8 15 28 | JAN. . | 26 3 43 | 26 15 58 | 1905. B. | JAN. . | 22 18 53 | 22 13 33 |
| | FEB. . | 24 16 27 | 25 5 43 | | ○ | { 6 13 15 | 6 21 40 |
| | MAR. . | 26 5 11 | 26 16 40 | | FEB. . | { 21 7 37 | 21 7 25 |
| | ○ | { 9 23 33 | 9 20 59 | 8 8 55 | MAR. . | 22 20 21 | 23 1 14 |
| | APRIL | { 24 17 55 | 25 1 19 | | APRIL | 21 9 5 | 21 17 50 |
| | MAY . | 24 6 39 | 24 8 32 | | MAY . | 20 21 49 | 21 8 21 |
| | JUNE . | 22 19 23 | 22 15 16 | | JUNE . | 19 10 33 | 19 20 23 |
| | JULY . | 22 8 7 | 21 22 41 | | JULY . | 18 23 17 | 19 6 33 |
| | AUG. . | 20 20 51 | 20 7 50 | | ○ | { 2 17 39 | 2 6 3 |
| | SEPT. . | 19 9 35 | 18 19 40 | | AUG. . | { 17 12 1 | 17 15 22 |
| | ○ | { 4 3 57 | 4 8 21 | | SEPT. . | 16 0 45 | 15 23 53 |
| | OCT. . | { 18 22 19 | 18 10 35 | | OCT. . | 15 13 29 | 15 8 56 |
| | NOV. . | 17 11 3 | 17 4 17 | | NOV. . | 14 2 13 | 13 19 6 |
| | DEC. . | 16 23 47 | 16 23 40 | | DEC. . | 13 14 57 | 13 6 39 |
| 1903. E. 8 21 17 | JAN. . | 15 12 32 | 15 19 6 | 1906. A. | JAN. . | { 12 3 41 | 11 19 42 |
| | FEB. . | 14 1 16 | 14 12 54 | | ○ | { 26 22 3 | 27 10 20 |
| | MAR. . | { 15 14 0 | 16 3 57 | | FEB. . | 10 16 25 | 10 10 10 |
| | ○ | { 30 8 22 | 30 2 40 | 8 14 44 | MAR. . | 12 5 9 | 12 1 48 |
| | APRIL | 14 2 44 | 14 15 54 | | APRIL | 10 17 53 | 10 13 5 |
| | MAY . | 13 15 23 | 14 1 10 | | MAY . | 10 6 37 | 10 10 16 |
| | JUNE . | 12 4 12 | 12 8 36 | | JUNE . | 8 19 21 | 9 1 38 |
| | JULY . | 11 16 56 | 11 15 17 | | JULY . | { 8 8 5 | 8 15 27 |
| | AUG. . | 10 5 40 | 9 22 21 | | ○ | { 23 2 27 | 22 15 21 |
| | SEPT. . | { 8 18 24 | 8 6 49 | | AUG. . | 6 20 49 | 7 3 41 |
| | ○ | { 23 12 46 | 23 17 50 | | SEPT. . | 5 9 33 | 5 14 36 |
| | OCT. . | 8 7 8 | 7 17 36 | | OCT. . | 4 22 17 | 5 0 50 |
| | NOV. . | 6 19 52 | 6 7 14 | | NOV. . | 3 11 1 | 3 11 2 |
| | DEC. . | 6 8 36 | 5 23 41 | | DEC. . | 2 23 45 | 2 21 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---|-----------------------|------------------------------------|------------------------------------|
| A.D. 1907. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1910. C. March. <i>d. h. m.</i> 8 13 59 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. ○ | { 1 12 29 16 6 51 31 1 13 | { 1 8 32 16 16 1 30 20 4 | JAN. . | 27 16 24 | 28 3 47 | |
| | FEB. . | ... | ... | FEB. . | 26 5 8 | 26 15 8 | |
| March. <i>d. h. m.</i> 8 20 32 | MAR. . | { 1 13 58 31 2 42 | { 1 8 16 30 21 19 | MAR. . | 27 17 52 | 28 0 29 | |
| | APRIL . | 29 15 26 | 29 11 22 | APRIL . | 26 6 36 | 26 8 25 | |
| | MAY . | 29 4 10 | 29 2 17 | ○ | { 11 0 58 25 19 20 | { 11 7 46 25 15 45 | |
| | JUNE . | 27 16 54 | 27 17 40 | JUNE . | 24 8 4 | 23 23 31 | |
| | ○ | { 12 11 16 27 5 38 | { 12 6 47 27 8 51 | JULY . | 23 20 48 | 23 8 50 | |
| | JULY . | 25 18 22 | 25 23 18 | AUG. . | 22 9 32 | 21 20 37 | |
| | AUG. . | 24 7 6 | 24 12 45 | SEPT. . | 20 22 16 | 20 11 16 | |
| | SEPT. . | 23 19 50 | 24 1 14 | OCT. . | 20 11 0 | 20 4 34 | |
| | OCT. . | 22 8 34 | 22 13 1 | ○ | { 4 5 22 18 23 44 | { 4 2 36 18 23 29 | |
| | NOV. . | 21 21 18 | 22 0 15 | NOV. . | 18 12 28 | 18 18 32 | |
| | DEC. . | 20 10 3 | 20 11 2 | DEC. . | 17 12 9 | 17 12 9 | |
| 1908. F.E. | JAN. . | 18 22 47 | 18 21 26 | 1911. B. | JAN. . | 15 13 56 | 16 3 17 |
| 8 2 21 | FEB. . | 19 11 31 | 19 7 39 | 8 19 48 | MAR. . | 17 2 41 | 17 15 32 |
| | MAR. . | 18 0 15 | 17 18 15 | APRIL . | 15 15 25 | 16 1 10 | |
| | APRIL . | 17 12 59 | 17 5 49 | MAY . | 15 4 9 | 15 8 51 | |
| | JUNE . | 16 1 43 | 15 18 54 | JUNE . | 13 16 53 | 13 15 37 | |
| | JULY . | 15 14 27 | 15 9 82 | JULY . | 13 5 37 | 12 22 32 | |
| | AUG. . | 14 8 11 | 14 1 19 | AUG. . | 11 18 21 | 11 6 43 | |
| | SEPT. . | 12 15 55 | 12 17 35 | SEPT. . | 10 7 5 | 9 17 10 | |
| | OCT. . | 12 4 39 | 12 9 81 | OCT. . | 9 19 49 | 9 6 37 | |
| | NOV. . | 10 17 23 | 11 0 82 | NOV. . | 8 8 33 | 7 23 5 | |
| | DEC. . | 10 6 7 | 10 14 15 | DEC. . | 7 21 17 | 7 17 51 | |
| 1909. D. | JAN. . | 8 18 51 | 9 2 33 | 1912. A.G. | JAN. . | 6 10 1 | 6 13 23 |
| 8 8 10 | FEB. . | 7 7 35 | 7 13 26 | 8 1 37 | FEB. . | 4 22 45 | 5 8 13 |
| | MAR. . | 8 20 19 | 8 23 4 | MAR. . | { 5 11 29 20 5 51 | { 6 0 40 20 0 40 | |
| | APRIL . | 7 9 3 | 7 7 51 | ○ | 4 0 13 | 4 14 6 | |
| | MAY . | { 6 21 47 21 16 9 | { 6 16 28 22 3 49 | APRIL . | 8 12 57 | 4 0 34 | |
| | ○ | 5 10 81 | 5 1 51 | JUNE . | 2 1 41 | 2 8 44 | |
| | JUNE . | 4 23 15 | 4 12 54 | JULY . | { 1 14 25 31 3 9 | { 1 15 39 30 22 29 | |
| | AUG. . | 3 11 59 | 3 2 12 | AUG. . | 29 15 53 | 29 6 14 | |
| | SEPT. . | 2 0 43 | 1 17 46 | ○ | { 13 10 15 23 4 37 | { 13 14 10 27 15 53 | |
| | OCT. . | { 1 13 27 31 2 11 | { 1 11 3 31 4 57 | SEPT. . | 27 17 21 | 27 4 8 | |
| | ○ | { 14 20 33 29 14 55 | { 14 11 9 29 22 13 | OCT. . | 26 6 5 | 25 19 15 | |
| | NOV. . | 29 3 39 | 29 14 8 | NOV. . | 25 18 49 | 25 12 49 | |
| | DEC. . | | | DEC. . | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|---------------|------------------------------------|------------------------------------|
| A.D. 1913. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1916. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 24 7 34 | 24 7 46 | C.B. | O | { 7 4 22 | 7 10 52 |
| March. | FEB. . | 22 20 18 | 23 2 36 | JAN. . | { 21 22 44 | 21 18 39 | |
| <i>d. h. m.</i> | O | { 9 14 40 | 9 14 43 | March. | FEB. . | 20 11 28 | 20 6 16 |
| 8 7 25 | MAR. . | { 24 9 2 | 24 19 50 | <i>d. h. m.</i> | MAR. . | 21 0 12 | 20 18 33 |
| | APRIL | 22 21 46 | 23 10 31 | 8 0 52 | APRIL | 19 12 56 | 19 7 47 |
| | MAY . | 22 10 30 | 22 22 18 | | MAY . | 19 1 40 | 18 22 5 |
| | JUNE . | 20 23 14 | 21 7 40 | | JUNE . | 17 14 24 | 17 13 12 |
| | JULY . | 20 11 58 | 20 15 32 | O | { 2 8 46 | 2 7 9 | |
| | AUG. . | 19 0 42 | 18 22 58 | JULY . | { 17 3 8 | 17 4 36 | |
| | O | { 2 19 4 | 2 15 22 | AUG. . | 15 15 52 | 15 19 39 | |
| | SEPT. . | { 17 13 26 | 17 7 0 | SEPT. . | 14 4 36 | 14 9 53 | |
| | OCT. . | 17 2 10 | 16 16 25 | OCT. . | 13 17 20 | 13 23 8 | |
| | NOV. . | 15 14 54 | 15 3 47 | NOV. . | 12 6 4 | 12 11 30 | |
| | DEC. . | 15 3 38 | 14 17 24 | DEC. . | { 11 18 48 | 11 23 9 | |
| | | | | O | { 26 13 10 | 26 10 1 | |
| 1914. | JAN. . | 13 16 23 | 13 9 7 | 1917. | JAN. . | 10 7 33 | 10 10 11 |
| E. | FEB. . | { 12 5 7 | 12 2 19 | A. | FEB. . | 8 20 17 | 8 20 37 |
| | O | { 26 23 29 | 27 7 3 | 8 6 41 | MAR. . | 10 9 1 | 10 6 39 |
| 8 13 14 | MAR. . | 13 17 51 | 13 20 3 | | APRIL | 8 21 45 | 8 16 43 |
| | APRIL | 12 6 35 | 12 13 13 | | MAY . | 8 10 29 | 8 3 27 |
| | MAY . | 11 19 19 | 12 4 46 | | JUNE . | { 6 23 13 | 6 15 32 |
| | JUNE . | 10 8 3 | 10 18 7 | O | { 21 17 35 | 22 0 6 | |
| | JULY . | 9 20 47 | 10 5 16 | JULY . | 6 11 57 | 6 5 17 | |
| | AUG. . | { 8 9 31 | 8 14 48 | AUG. . | 5 0 41 | 4 20 37 | |
| | O | { 23 3 53 | 22 16 23 | SEPT. . | 3 13 25 | 3 12 55 | |
| | SEPT. . | 6 22 15 | 6 23 34 | OCT. . | 3 2 9 | 3 5 23 | |
| | OCT. . | 6 10 59 | 6 8 29 | NOV. . | 1 14 53 | 1 21 13 | |
| | NOV. . | 4 23 43 | 4 18 13 | DEC. O | { 1 3 37 | 1 11 51 | |
| | DEC. . | 4 12 27 | 4 5 6 | | { 15 21 59 | 15 12 9 | |
| | | | | | { 30 16 21 | 31 1 0 | |
| 1915. | JAN. . | 3 1 11 | 2 17 21 | 1918. | JAN. . | 29 5 5 | 29 12 33 |
| D. | FEB. . | 1 13 55 | 1 6 56 | G. | FEB. . | 27 17 49 | 27 22 39 |
| 8 19 3 | MAR. . | 3 2 39 | 2 21 45 | 8 12 30 | MAR. . | 29 6 33 | 29 7 34 |
| | APRIL | 1 15 23 | 1 13 30 | | APRIL | 27 19 17 | 27 15 57 |
| | MAY . | { 1 4 7 | 1 5 36 | | MAY . | 27 8 1 | 27 0 33 |
| | JUNE . | { 30 16 51 | 30 21 22 | O | { 11 2 23 | 11 12 57 | |
| | JULY . | 29 5 35 | 29 12 2 | JUNE . | { 25 20 45 | 25 10 36 | |
| | AUG. . | 27 7 3 | 27 13 0 | JULY . | 25 9 29 | 24 22 39 | |
| | SEPT. . | 25 19 47 | 25 23 47 | AUG. . | 23 22 13 | 23 13 10 | |
| | OCT. . | 25 8 31 | 25 10 10 | SEPT. . | 22 10 57 | 22 5 50 | |
| | NOV. . | 23 21 15 | 23 20 33 | OCT. . | 21 23 41 | 21 23 46 | |
| | DEC. . | 23 9 59 | 23 7 27 | NOV. . | 20 12 25 | 20 17 49 | |
| | | | | DEC. . | 20 1 9 | 20 10 40 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1919. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1922. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. March. <i>d. h. m.</i> 8 18 18 | JAN. . | 18 18 54 | 19 1 32 | B. March. <i>d. h. m.</i> 8 11 45 | JAN. . | 15 5 4 | 15 2 12 |
| | FEB. . | 17 2 38 | 17 13 59 | | FEB. . | 13 17 48 | 13 21 7 |
| | MAR. . | 18 15 22 | 19 0 9 | | MAR. . | 15 6 32 | 15 15 10 |
| | APRIL | 17 4 6 | 17 8 32 | | APRIL | 13 19 16 | 14 7 7 |
| | MAY . | 16 16 50 | 16 15 52 | | MAY . | 13 8 0 | 13 20 18 |
| | JUNE . | 15 5 34 | 14 23 10 | | JUNE . | 11 20 44 | 12 6 50 |
| | JULY . | 14 18 18 | 14 7 31 | | JULY . | 11 9 28 | 11 15 24 |
| | AUG. . | 13 7 2 | 12 17 57 | | AUG. . | 9 22 12 | 9 23 4 |
| | SEPT. . | 11 19 46 | 11 7 13 | | SEPT. . | 8 10 56 | 8 6 51 |
| | OCT. . | 11 8 30 | 10 23 23 | | OCT. . | 7 23 40 | 7 15 39 |
| | ○ | 26 2 52 | 26 1 56 | | NOV. . | 6 12 24 | 6 2 6 |
| | NOV. . | 9 21 14 | 9 17 43 | | DEC. . | 6 1 8 | 5 14 37 |
| | DEC. . | 9 9 58 | 9 13 5 | | | | |
| 1920. | JAN. . | 7 22 42 | 8 7 40 | 1923. | JAN. . | 4 13 52 | 4 5 12 |
| E.D. 8 0 7 | FEB. . | 6 11 26 | 7 0 10 | A. 8 17 34 | FEB. . | 3 2 36 | 2 21 32 |
| | MAR. . | 7 0 10 | 7 13 48 | | ○ | 17 20 58 | 18 6 14 |
| | APRIL | 5 12 54 | 6 0 34 | | MAR. . | 4 15 20 | 4 14 55 |
| | ○ | 20 7 16 | 20 4 0 | | APRIL | 3 4 4 | 3 8 18 |
| | MAY . | 5 1 38 | 5 8 59 | | MAY . | 2 16 48 | 3 0 38 |
| | JUNE . | 3 14 22 | 3 16 1 | | JUNE . | 1 5 32 | 1 15 6 |
| | JULY . | 3 3 6 | 2 22 41 | | ○ | 30 18 16 | 1 3 24 |
| | AUG. . | 1 15 50 | 1 6 7 | | JULY . | 30 7 0 | 30 13 49 |
| | SEPT. . | 31 4 34 | 30 15 23 | | ○ | 14 1 22 | 13 13 1 |
| | ○ | 29 17 18 | 29 3 20 | | AUG. . | 28 19 44 | 28 23 4 |
| | OCT. . | 14 11 40 | 14 16 32 | | SEPT. . | 27 8 23 | 27 8 8 |
| | NOV. . | 27 18 46 | 27 12 12 | | OCT. . | 26 21 12 | 26 17 29 |
| | DEC. . | 27 7 30 | 27 7 37 | | NOV. . | 25 9 56 | 25 8 54 |
| | | | | | DEC. . | 24 22 40 | 24 15 27 |
| 1921. | JAN. . | 25 20 14 | 26 2 58 | 1924. | JAN. . | 23 11 24 | 23 4 14 |
| C. 8 5 56 | FEB. . | 24 8 59 | 24 20 40 | G.F. 7 23 23 | ○ | 7 5 46 | 7 18 41 |
| | MAR. . | 25 21 43 | 26 11 35 | | FEB. . | 22 0 9 | 21 18 12 |
| | ○ | 9 16 5 | 9 10 15 | | MAR. . | 22 12 53 | 22 9 14 |
| | APRIL | 24 10 27 | 24 23 24 | | APRIL | 21 1 37 | 21 1 0 |
| | MAY . | 23 23 11 | 24 8 34 | | MAY . | 20 14 21 | 20 16 52 |
| | JUNE . | 22 11 55 | 22 15 59 | | JUNE . | 19 3 5 | 19 8 9 |
| | JULY . | 22 0 39 | 21 22 47 | | JULY . | 18 15 49 | 18 22 13 |
| | AUG. . | 20 13 23 | 20 6 8 | | ○ | 2 10 11 | 1 22 42 |
| | SEPT. . | 19 2 7 | 18 14 45 | | AUG. . | 17 4 33 | 17 10 54 |
| | ○ | 3 20 29 | 4 1 26 | | SEPT. . | 15 17 17 | 15 22 22 |
| | OCT. . | 18 14 51 | 18 1 44 | | OCT. . | 15 6 1 | 15 9 10 |
| | NOV. . | 17 3 35 | 16 15 28 | | NOV. . | 13 18 45 | 13 19 46 |
| | DEC. . | 16 16 19 | 16 7 52 | | DEC. . | 13 7 29 | 13 6 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ec'l.) | True New Moon. (○ Full Ec'l.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ec'l.) | True New Moon. (○ Full Ec'l.) |
|----------------------------|---------|-------------------------------------|-------------------------------------|----------------------------|---------|-------------------------------------|-------------------------------------|
| A.D. 1925. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1928. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | JAN. . | { 11 20 14 | 11 17 27 | B.A. | JAN. . | 9 11 24 | 9 22 38 |
| March. | ○ | { 26 14 36 | 27 0 3 | March. | FEB. . | 8 0 8 | 8 12 18 |
| <i>d. h. m.</i> | FEB. . | 10 8 58 | 10 4 39 | <i>d. h. m.</i> | MAR. . | 8 12 52 | 8 23 29 |
| 8 5 11 | MAR. . | 11 21 42 | 11 16 18 | 7 22 38 | APRIL | 7 1 36 | 7 8 30 |
| | APRIL | 10 10 26 | 10 4 44 | | MAY . | { 6 14 20 | 6 16 6 |
| | MAY . | 9 23 10 | 9 18 14 | | ○ | { 21 8 42 | 21 14 23 |
| | JUNE . | 8 11 54 | 8 8 50 | | JUNE . | 5 3 4 | 4 23 11 |
| | JULY . | { 8 0 38 | 8 0 8 | | JULY . | 4 15 43 | 4 6 43 |
| | ○ | { 22 19 0 | 22 14 17 | | AUG. . | 3 4 32 | 2 16 3 |
| | AUG. . | 6 13 22 | 6 13 34 | | SEPT. . | 1 17 16 | { 1 3 52 |
| | SEPT. . | 5 2 6 | 5 6 30 | | ○ | { 1 6 0 | { 30 18 41 |
| | OCT. . | 4 14 50 | 4 20 33 | | NOV. . | { 14 13 6 | 14 11 24 |
| | NOV. . | 3 3 34 | 3 9 38 | | DEC. . | { 29 7 23 | 29 7 23 |
| | DEC. . | 2 16 18 | 2 21 49 | | | 28 20 12 | 29 2 36 |
| 1926. | JAN. . | { 1 5 2 | 1 9 12 | | | | |
| D. | FEB. . | { 30 17 46 | 30 19 51 | 1929. | JAN. . | 27 8 56 | 27 20 19 |
| 8 11 0 | MAR. . | { 1 6 30 | 1 5 53 | G. | FEB. . | 25 21 40 | 26 11 24 |
| | APRIL | { 30 19 14 | 30 15 36 | 8 4 27 | MAR. . | 27 10 24 | 27 23 28 |
| | MAY . | 29 7 58 | 29 1 39 | | APRIL | 25 23 8 | 26 8 52 |
| | JUNE . | 28 20 42 | 28 12 44 | | MAY . | 25 11 52 | 25 16 23 |
| | JULY . | 27 9 26 | 27 1 30 | | JUNE . | 24 0 36 | 23 23 3 |
| | AUG. . | 26 22 10 | 26 16 5 | | JULY . | 23 13 20 | 23 5 59 |
| | SEPT. . | 25 10 54 | 25 8 5 | | AUG. . | 22 2 4 | 21 14 16 |
| | OCT. . | 23 23 33 | 24 0 43 | | SEPT. . | 20 14 43 | 20 0 52 |
| | NOV. . | 23 12 22 | 23 17 19 | | OCT. . | 20 3 32 | 19 14 27 |
| | DEC. . | 22 1 6 | 22 8 52 | | NOV. . | 18 16 16 | 18 7 1 |
| | | 21 13 50 | 21 22 57 | | DEC. . | 18 5 0 | 18 1 43 |
| 1927. | JAN. . | 20 2 35 | 20 11 22 | 1930. | JAN. . | 16 17 44 | 16 21 22 |
| C. | FEB. . | 18 15 19 | 18 22 5 | F. | FEB. . | 15 6 29 | 15 16 0 |
| 8 16 49 | MAR. . | 20 4 3 | 20 7 21 | 8 10 16 | MAR. . | { 16 19 13 | 17 8 13 |
| | APRIL | 18 16 47 | 18 15 41 | | ○ | { 31 13 35 | 31 8 29 |
| | MAY . | 18 5 31 | 17 23 54 | | APRIL | 15 7 57 | 15 21 36 |
| | ○ | { 1 23 53 | 2 10 44 | | MAY . | 14 20 41 | 15 7 57 |
| | JUNE . | { 16 13 15 | 16 8 57 | | JUNE . | 13 9 25 | 13 16 7 |
| | JULY . | 16 6 59 | 15 19 47 | | JULY . | 12 22 9 | 12 23 8 |
| | AUG. . | 14 19 43 | 14 9 3 | | AUG. . | 11 10 53 | 11 6 8 |
| | SEPT. . | 13 8 27 | 13 0 43 | | SEPT. . | { 9 23 37 | 9 14 8 |
| | OCT. . | 12 21 11 | 12 18 47 | | ○ | { 24 17 59 | 24 21 33 |
| | NOV. . | { 11 9 55 | 11 12 43 | | OCT. . | 9 12 21 | 9 0 1 |
| | ○ | { 26 4 17 | 25 19 54 | | NOV. . | 8 1 5 | 7 12 26 |
| | DEC. . | 10 22 39 | 11 6 34 | | DEC. . | 7 13 49 | 7 3 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1931. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1933. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. March. | JAN. . | 6 2 34 | 5 20 56 | B. March. | JAN. . | 13 8 55 | 13 2 3 |
| <i>d. h. m.</i> | FEB. . | 4 15 18 | 4 15 31 | <i>d. h. m.</i> | FEB. . | 11 21 39 | 11 15 13 |
| 8 16 4 | MAR. . | { 6 4 2 | 6 10 4 | 8 3 42 | MAR. . | 13 10 23 | 13 5 26 |
| | ○ | 20 22 24 | 20 22 56 | | APRIL | 11 23 7 | 11 20 36 |
| | APRIL | 4 16 46 | 5 3 3 | | MAY . | 11 11 51 | 11 12 17 |
| | MAY . | 4 5 30 | 4 17 35 | | JUNE . | 10 0 35 | 10 3 51 |
| | JUNE . | 2 18 14 | 3 5 23 | | JULY . | 9 13 19 | 9 18 39 |
| | JULY . | { 2 6 58 | 2 14 55 | | AUG. . | 8 2 3 | 8 8 13 |
| | | 31 19 42 | 31 23 2 | | SEPT. . | 6 14 47 | 6 20 32 |
| | AUG. . | 30 8 26 | 30 6 44 | | OCT. . | 6 3 31 | 6 7 54 |
| | ○ | { 14 2 48 | 13 22 23 | | NOV. . | 4 16 15 | 4 18 47 |
| | SEPT. . | 28 21 10 | 28 15 12 | | DEC. . | 4 4 59 | 4 5 34 |
| | OCT. . | 23 9 54 | 23 0 54 | | | | |
| | NOV. . | 26 22 38 | 26 12 26 | | | | |
| | DEC. . | 26 11 22 | 26 1 57 | | | | |
| 1932. | JAN. . | 25 0 6 | 24 17 17 | 1934. | JAN. . | { 2 17 43 | 2 16 25 |
| D.C. | FEB. . | 23 12 50 | 23 10 0 | A. | ○ | { 17 12 5 | 17 18 51 |
| | ○ | { 9 7 12 | 9 15 24 | 8 9 31 | FEB. . | 1 6 27 | 1 3 21 |
| 7 21 53 | MAR. . | { 24 1 31 | 24 3 16 | | MAR. . | 2 19 11 | 2 14 31 |
| | APRIL | 22 14 18 | 22 20 4 | | APRIL | { 1 7 55 | 1 2 12 |
| | MAY . | 22 8 2 | 22 11 29 | | | 30 20 39 | 30 14 51 |
| | JUNE . | 20 15 46 | 21 0 55 | | MAY . | 30 9 23 | 30 4 42 |
| | JULY . | 20 4 30 | 20 12 21 | | JUNE . | 28 22 7 | 28 19 37 |
| | AUG. . | 18 17 14 | 18 22 18 | | ○ | { 13 16 29 | 13 14 37 |
| | ○ | { 2 11 36 | 1 23 34 | | JULY . | 28 10 51 | 28 11 9 |
| | SEPT. . | { 17 5 58 | 17 7 33 | | AUG. . | 26 23 35 | 27 2 36 |
| | OCT. . | 16 18 42 | 16 17 4 | | SEPT. . | 25 12 19 | 25 17 25 |
| | NOV. . | 15 7 26 | 15 2 53 | | | | |
| | DEC. . | 14 20 10 | 14 13 53 | | | | |

TABLE
OF
VERNAL EQUINOXES AND NEW MOONS
IN
"NEW STYLE"
FROM THE ENGLISH REFORMATION OF THE CALENDAR
A.D. 1752 TO A.D. 1934.

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1752. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1755. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | | | E. March. d. h. m. 21 0 50 | JAN. . | 13 0 12 | 12 15 22 |
| | FEB. . | | | | FEB. . | 11 12 56 | 11 7 13 |
| | MAR. . | | | | MAR. . | 13 1 40 | 13 0 14 |
| | APRIL | | | | ○ | 27 20 2 | 28 3 7 |
| | MAY . | | | | APRIL | 11 14 24 | 11 17 28 |
| | JUNE . | | | | MAY . | 11 3 8 | 11 9 58 |
| | JULY . | | | | JUNE . | 9 15 52 | 10 0 47 |
| | AUG. . | | | | JULY . | 9 4 36 | 9 13 34 |
| | SEPT. . | | | | AUG. . | 7 17 20 | 8 0 29 |
| | OCT. . | 8 3 39 | 7 13 38 | | SEPT. . | 6 6 4 | 6 10 6 |
| | NOV. . | 6 16 23 | 6 4 10 | | ○ | 21 0 26 | 20 13 9 |
| | DEC. . | 6 5 7 | 5 21 33 | | OCT. . | 5 18 43 | 5 19 13 |
| | | | | | NOV. . | 4 7 32 | 4 4 46 |
| 1753. | | | | | DEC. . | 3 20 16 | 3 15 5 |
| G. March. d. h. m. 20 13 13 | JAN. . | 4 17 51 | 4 16 44 | 1756. | JAN. . | 2 9 0 | 2 2 26 |
| | FEB. . | 3 6 35 | 3 12 11 | D.C. | FEB. . | 81 21 45 | 31 14 52 |
| | MAR. . | 4 19 19 | 5 6 14 | | ... | ... | ... |
| | APRIL | 3 8 3 | 3 21 39 | | ... | ... | ... |
| | ○ | 18 2 25 | 17 20 46 | 20 6 39 | MAR. . | 1 10 29 | 1 4 23 |
| | MAY . | 2 20 47 | 3 10 0 | | ... | 30 23 13 | 30 18 56 |
| | JUNE . | 1 9 31 | 1 19 35 | | APRIL | 29 11 57 | 29 10 20 |
| | ... | 30 22 15 | 1 3 17 | | MAY . | 29 0 41 | 29 2 6 |
| | JULY . | 30 10 59 | 30 10 10 | | JUNE . | 27 13 25 | 27 17 30 |
| | AUG. . | 23 23 43 | 23 17 22 | | JULY . | 27 2 9 | 27 7 56 |
| | SEPT. . | 27 12 27 | 27 1 51 | | AUG. . | 25 14 53 | 25 21 5 |
| | ○ | 12 6 49 | 12 11 15 | | SEPT. . | 24 3 37 | 24 9 1 |
| | OCT. . | 27 1 11 | 26 12 27 | | OCT. . | 23 16 21 | 23 20 9 |
| | NOV. . | 25 13 55 | 25 1 40 | | NOV. . | 22 5 5 | 22 6 58 |
| | DEC. . | 25 2 39 | 24 17 34 | | DEC. . | 21 17 49 | 21 17 45 |
| 1754. | | | | 1757. | | | |
| F. | JAN. . | 23 15 24 | 23 11 30 | B. | JAN. . | 20 6 34 | 20 4 39 |
| 20 19 2 | FEB. . | 22 4 8 | 22 6 16 | | ○ | 4 0 56 | 4 9 27 |
| | MAR. . | 23 16 52 | 24 0 26 | | FEB. . | 18 19 18 | 18 13 39 |
| | ○ | 7 11 14 | 7 10 34 | 20 12 23 | MAR. . | 20 8 2 | 20 2 57 |
| | APRIL | 22 5 36 | 22 16 45 | | APRIL | 13 20 46 | 13 14 57 |
| | MAY . | 21 13 20 | 22 6 27 | | MAY . | 13 9 30 | 13 8 57 |
| | JUNE . | 20 7 4 | 20 17 28 | | JUNE . | 16 22 14 | 16 18 11 |
| | JULY . | 19 19 43 | 20 2 27 | | JULY . | 16 10 58 | 16 9 21 |
| | AUG. . | 18 8 32 | 18 10 20 | | ○ | 31 5 20 | 31 1 40 |
| | SEPT. . | 16 21 16 | 16 18 12 | | AUG. . | 14 23 42 | 15 0 56 |
| | ○ | 1 15 33 | 1 12 39 | | SEPT. . | 13 12 26 | 13 13 13 |
| | OCT. . | 16 10 0 | 16 2 54 | | OCT. . | 13 1 10 | 13 6 43 |
| | NOV. . | 14 22 44 | 14 13 7 | | NOV. . | 11 13 54 | 11 20 15 |
| | DEC. . | 14 11 28 | 14 1 15 | | DEC. . | 11 2 38 | 11 8 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1758. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1761. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | { 9 15 22 | 9 20 24 | D. | JAN. . | 6 6 32 | 6 11 54 |
| March. | ○ | { 24 9 44 | 24 8 49 | March. | FEB. . | 4 19 16 | 5 6 2 |
| <i>d. h. m.</i> | FEB. . | 8 4 6 | 8 7 8 | <i>d. h. m.</i> | MAR. . | 6 8 0 | 6 21 38 |
| 20 18 17 | MAR. . | 9 16 50 | 9 17 5 | 20 11 43 | APRIL | 4 20 44 | 5 10 13 |
| | APRIL | 8 5 34 | 8 2 37 | | MAY . | { 4 9 28 | 4 19 59 |
| | MAY . | 7 18 18 | 7 12 18 | | ○ | { 19 3 50 | 19 0 23 |
| | JUNE . | 6 7 2 | 5 22 57 | | JUNE . | 2 22 12 | 3 3 43 |
| | JULY . | { 5 19 46 | 5 11 12 | | JULY . | { 2 10 56 | 2 10 26 |
| | ○ | { 20 14 8 | 20 18 42 | | AUG. . | 30 12 24 | 30 1 14 |
| | AUG. . | 4 8 30 | 4 1 25 | | SEPT. . | 29 1 8 | 28 11 25 |
| | SEPT. . | 2 21 14 | 2 17 18 | | OCT. . | 28 13 52 | 28 0 29 |
| | OCT. . | { 2 9 58 | 2 10 8 | | ○ | { 12 8 14 | 12 13 24 |
| | NOV. . | 30 11 26 | 30 19 2 | | NOV. . | { 27 2 36 | 26 16 32 |
| | DEC. . | 30 0 10 | 30 9 35 | | DEC. . | 26 15 20 | 26 10 59 |
| 1759. | ○ | { 13 18 32 | 13 10 22 | 1762. | JAN. . | 25 4 5 | 25 6 29 |
| G. | JAN. . | { 23 12 55 | 23 22 22 | C. | FEB. . | 23 16 49 | 24 1 21 |
| 21 0 6 | FEB. . | 27 1 39 | 27 9 18 | 20 17 32 | MAR. . | 25 5 33 | 25 18 6 |
| | MAR. . | 23 14 23 | 23 18 41 | | APRIL | 23 18 17 | 24 7 55 |
| | APRIL | 27 3 7 | 27 2 57 | | ○ | { 8 12 39 | 8 6 5 |
| | MAY . | 26 15 51 | 26 10 56 | | MAY . | { 23 7 1 | 23 18 46 |
| | JUNE . | 25 4 35 | 24 19 37 | | JUNE . | 21 19 45 | 22 3 17 |
| | JULY . | 24 17 19 | 24 5 57 | | JULY . | 21 8 29 | 21 10 29 |
| | AUG. . | 23 6 3 | 22 18 43 | | AUG. . | 19 21 13 | 19 17 30 |
| | SEPT. . | 21 18 47 | 21 10 6 | | SEPT. . | 18 9 57 | 18 1 21 |
| | OCT. . | 21 7 31 | 21 3 35 | | OCT. . | 17 22 41 | 17 10 56 |
| | NOV. . | 19 20 15 | 19 22 5 | | ○ | { 1 17 3 | 1 22 50 |
| | DEC. . | 19 8 59 | 19 16 14 | | NOV. . | { 16 11 25 | 15 22 54 |
| 1760. | JAN. . | 17 21 44 | 18 8 49 | 1763. | DEC. . | 16 0 9 | 15 13 30 |
| FEB. | FEB. . | 16 10 28 | 16 22 59 | B. | JAN. . | 14 12 54 | 14 6 25 |
| 20 5 55 | MAR. . | 16 23 12 | 17 10 32 | 20 23 21 | FEB. . | 13 1 38 | 13 0 46 |
| | APRIL | 15 11 56 | 15 19 48 | | MAR. . | 14 14 22 | 14 19 14 |
| | MAY . | { 15 0 40 | 15 3 28 | | APRIL | 13 3 6 | 13 12 27 |
| | ○ | { 29 19 2 | 29 23 41 | | MAY . | 12 15 50 | 13 3 26 |
| | JUNE . | 13 13 24 | 13 10 28 | | JUNE . | 11 4 34 | 11 15 47 |
| | JULY . | 13 2 8 | 12 17 49 | | JULY . | 10 17 18 | 11 1 45 |
| | AUG. . | 11 14 52 | 11 2 39 | | AUG. . | 9 6 2 | 9 10 12 |
| | SEPT. . | 10 3 36 | 9 13 58 | | SEPT. . | 7 18 46 | 7 18 8 |
| | OCT. . | 9 16 20 | 9 4 17 | | OCT. . | 7 7 30 | 7 2 31 |
| | NOV. . | { 8 5 4 | 7 21 26 | | NOV. . | 5 20 14 | 5 12 4 |
| | ○ | { 22 23 26 | 22 22 40 | | DEC. . | 5 8 58 | 4 23 17 |
| | DEC. . | 7 17 48 | 7 16 30 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1764. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1767. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A.G. March. <i>d. h. m.</i> 20 5 10 | JAN. . | 3 21 42 | 3 12 22 | D. March. <i>d. h. m.</i> 20 22 36 | JAN. . | 30 1 36 | 30 6 19 |
| | FEB. . | 2 10 26 | 2 3 14 | | FEB. . | 28 14 20 | 28 16 30 |
| | MAR. . | { 2 23 10 | 2 19 31 | | MAR. . | 30 3 4 | 30 1 58 |
| | O | { 17 17 32 | 18 2 38 | | APRIL | 28 15 48 | 28 11 13 |
| | APRIL | 1 11 54 | 1 12 30 | | MAY . | 28 4 32 | 27 21 2 |
| | MAY . | { 1 0 38 | 1 5 17 | | JUNE . | 26 17 16 | 26 8 14 |
| | JUNE . | { 30 13 22 | 30 20 57 | | JULY . | 26 6 0 | 25 21 24 |
| | JULY . | 29 2 6 | 29 10 50 | | AUG. . | 24 18 44 | 24 12 32 |
| | AUG. . | 28 14 50 | 28 22 45 | | SEPT. . | 23 7 28 | 23 5 10 |
| | O | { 27 3 34 | 27 9 7 | | OCT. . | 22 20 12 | 22 22 24 |
| | SEPT. . | { 10 21 56 | 10 9 19 | | NOV. . | 21 8 56 | 21 15 13 |
| | OCT. . | { 25 16 18 | 25 18 41 | | DEC. . | 20 21 40 | 21 6 46 |
| | NOV. . | 25 5 2 | 25 4 11 | | O | { 4 16 2 | 4 6 36 |
| | DEC. . | 23 17 46 | 23 14 14 | 1768. | JAN. . | { 19 10 25 | 19 20 35 |
| | | 23 6 30 | 23 1 5 | C.B. 20 4 25 | FEB. . | 17 23 9 | 18 8 23 |
| 1765. | JAN. . | 21 19 15 | 21 12 54 | | MAR. . | 18 11 53 | 18 18 21 |
| F. | FEB. . | 20 7 59 | 20 1 33 | | APRIL | 17 0 37 | 17 2 54 |
| | O | { 7 2 21 | 7 15 52 | | MAY . | 16 13 21 | 16 10 44 |
| 20 10 59 | MAR. . | { 21 20 43 | 21 15 24 | | JUNE . | { 15 2 5 | 14 18 45 |
| | APRIL | 20 9 27 | 20 6 8 | | O | { 29 20 27 | 30 6 11 |
| | MAY . | 19 22 11 | 19 21 33 | | JULY . | 14 14 49 | 14 4 2 |
| | JUNE . | 18 10 55 | 18 13 6 | | AUG. . | 13 8 33 | 12 15 29 |
| | JULY . | 17 23 39 | 18 4 10 | | SEPT. . | 11 16 17 | 11 5 37 |
| | AUG. . | { 16 12 23 | 16 18 9 | | OCT. . | 11 5 1 | 10 22 18 |
| | O | { 31 6 45 | 30 18 2 | | NOV. . | 9 17 45 | 9 16 33 |
| | SEPT. . | 15 1 7 | 15 6 56 | | DEC. . | { 9 6 29 | 9 11 19 |
| | OCT. . | 14 13 51 | 14 18 43 | | O | { 24 0 51 | 23 17 14 |
| | NOV. . | 13 2 35 | 13 5 53 | 1769. | JAN. . | 7 19 13 | 8 4 56 |
| | DEC. . | 12 15 19 | 12 16 49 | A. | FEB. . | 6 7 58 | 6 20 25 |
| 1766. | JAN. . | 11 4 3 | 11 3 40 | 20 10 14 | MAR. . | 7 20 42 | 8 9 13 |
| E. | FEB. . | { 9 16 48 | 9 14 80 | | APRIL | 6 9 26 | 6 19 27 |
| | O | { 24 11 10 | 24 22 12 | | MAY . | 5 22 10 | 6 4 10 |
| 20 16 48 | MAR. . | 11 5 32 | 11 1 23 | | JUNE . | { 4 10 54 | 4 10 45 |
| | APRIL | 9 13 16 | 9 12 41 | | O | { 19 5 16 | 19 10 33 |
| | MAY . | 9 7 0 | 9 0 51 | | JULY . | 3 23 38 | 3 17 43 |
| | JUNE . | 7 19 44 | 7 14 15 | | AUG. . | 2 12 22 | { 1 23 39 |
| | JULY . | 7 8 28 | 7 4 55 | | SEPT. . | { 1 1 6 | { 31 11 33 |
| | AUG. . | { 5 21 12 | 5 20 25 | | OCT. . | { 30 13 50 | 30 0 29 |
| | O | { 20 15 34 | 20 9 3 | | NOV. . | 30 2 34 | 29 16 23 |
| | SEPT. . | 4 9 56 | 4 12 6 | | DEC. . | 28 15 18 | 28 10 44 |
| | OCT. . | 3 22 40 | 4 3 20 | | O | { 13 9 40 | 13 8 25 |
| | NOV. . | 2 11 24 | 2 17 40 | | DEC. . | { 28 4 2 | 28 6 16 |
| | DEC. . | { 2 0 8 | 2 6 57 | | | | |
| | | { 31 12 52 | 31 19 10 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1770. G. March. d. h. m. 20 16 3 | JAN. . | d. h. m. 26 16 46 | d. h. m. 27 1 15 | A.D. 1773. C. March. d. h. m. 20 9 29 | JAN. . | d. h. m. 23 7 56 | d. h. m. 22 23 49 |
| | FEB. . | 25 5 30 | 25 18 12 | | FEB. . | 21 20 40 | 21 15 13 |
| | MAR. . | 26 18 14 | 27 8 13 | | MAR. . | 23 9 24 | 23 7 40 |
| | APRIL | 25 6 58 | 25 19 15 | | ○ | { 7 3 46 | 7 11 14 |
| | MAY . | 24 19 42 | 25 3 48 | | APRIL | { 21 22 8 | 22 0 27 |
| | JUNE . | 23 8 26 | 23 10 52 | | MAY . | 21 10 52 | 21 16 33 |
| | JULY . | 22 21 10 | 22 17 30 | | JUNE . | 19 23 36 | 20 7 26 |
| | AUG. . | 21 9 54 | 21 0 50 | | JULY . | 19 12 20 | 19 20 27 |
| | SEPT. . | 19 22 38 | 19 9 53 | | AUG. . | 18 1 4 | 18 7 44 |
| | OCT. . | 19 11 22 | 18 21 32 | | SEPT. . | { 16 13 48 | { 16 17 51 |
| | NOV. . | 18 0 6 | 17 12 12 | | ○ | { 1 8 10 | { 80 20 28 |
| | DEC. . | 17 12 50 | 17 5 35 | | OCT. . | { 16 2 32 | 16 3 33 |
| | | | | | NOV. . | 14 15 16 | 14 13 29 |
| 1771. F. 20 21 52 | JAN. . | 16 1 35 | 16 0 42 | 1774. B. 20 15 18 | JAN. . | 12 16 45 | 12 11 19 |
| | FEB. . | 14 14 19 | 14 19 59 | | FEB. . | 11 5 29 | 10 23 25 |
| | MAR. . | 16 8 3 | 16 13 50 | | MAR. . | 12 18 13 | 12 12 23 |
| | APRIL | { 14 15 47 | 15 5 6 | | APRIL | 11 6 57 | 11 2 20 |
| | ○ | { 29 10 9 | 29 4 19 | | MAY . | 10 19 41 | 10 17 11 |
| | MAY . | 14 4 31 | 14 17 20 | | JUNE . | 9 8 25 | 9 8 37 |
| | JUNE . | 12 17 15 | 13 2 54 | | JULY . | 8 21 9 | 8 23 59 |
| | JULY . | 12 5 59 | 12 10 40 | | AUG. . | 7 9 53 | 7 14 41 |
| | AUG. . | 10 18 43 | 10 17 45 | | SEPT. . | 5 22 37 | 6 4 18 |
| | SEPT. . | 9 7 27 | 9 1 12 | | OCT. . | 5 11 21 | 5 16 51 |
| | OCT. . | { 8 20 11 | 8 9 57 | | NOV. . | 4 0 5 | 4 4 23 |
| | ○ | { 23 14 33 | 23 18 56 | | DEC. . | 3 12 49 | 3 15 46 |
| | NOV. . | 7 8 56 | 6 20 48 | | | | |
| | DEC. . | 6 21 40 | 6 10 7 | | | | |
| 1772. E.D. 20 3 41 | JAN. . | 5 10 24 | 5 1 51 | 1775. A. 20 21 7 | JAN. . | { 2 1 33 | 2 2 45 |
| | FEB. . | 3 23 8 | 3 19 28 | | FEB. ○ | { 31 14 17 | 31 13 30 |
| | MAR. . | 4 11 52 | 4 13 50 | | | { 15 8 39 | 15 17 19 |
| | APRIL | { 3 0 35 | 3 7 39 | | MAR. . | { 2 3 1 | 2 0 8 |
| | ○ | { 17 18 57 | 17 18 32 | | | { 31 15 45 | 31 10 54 |
| | MAY . | 2 13 19 | 2 23 45 | | APRIL | 30 4 29 | 29 22 17 |
| | JUNE . | { 1 2 3 | 1 13 22 | | MAY . | 29 17 13 | 29 10 47 |
| | | { 30 14 47 | { 1 0 31 | | JUNE . | 28 5 57 | 28 0 41 |
| | JULY . | 30 3 31 | { 30 9 45 | | JULY . | 27 18 41 | 27 15 49 |
| | AUG. . | 23 16 15 | 23 18 0 | | ○ | { 11 13 3 | 11 9 14 |
| | SEPT. . | 27 4 59 | 27 2 15 | | AUG. . | { 26 7 25 | 26 7 33 |
| | ○ | { 11 23 21 | 11 19 54 | | SEPT. . | 24 20 9 | 24 23 26 |
| | OCT. . | { 26 17 43 | 26 11 19 | | OCT. . | 21 8 53 | 24 14 33 |
| | NOV. . | 25 6 27 | 24 21 48 | | NOV. . | 22 21 37 | 23 4 39 |
| | DEC. . | 24 19 11 | 24 9 57 | | DEC. . | 22 10 21 | 22 17 34 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1776. G.F. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1779. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 20 2 56 | JAN. . | 20 23 6 | 21 5 19 | March. <i>d. h. m.</i> 20 20 22 | JAN. . | 17 14 15 | 17 19 55 |
| | ○ | { 4 17 28 | 4 16 41 | | FEB. . | 16 2 59 | 16 14 1 |
| | FEB. . | { 19 11 50 | 19 15 53 | | MAR. . | 17 15 44 | 18 5 33 |
| | MAR. . | 20 0 34 | 20 1 27 | | APRIL | 16 4 28 | 16 17 57 |
| | APRIL | 18 13 18 | 18 10 29 | | MAY . | { 15 17 12 | 16 3 34 |
| | MAY . | 18 2 2 | 17 19 41 | | ○ | { 30 11 34 | 30 7 7 |
| | JUNE . | 16 14 46 | 16 5 55 | | JUNE . | 14 5 56 | 14 11 11 |
| | JULY . | { 16 3 30 | 15 17 55 | | JULY . | 13 18 40 | 13 17 55 |
| | ○ | { 30 21 52 | 31 4 8 | | AUG. . | 12 7 24 | 12 0 48 |
| | AUG. . | 14 16 14 | 14 8 5 | | SEPT. . | 10 20 8 | 10 8 57 |
| | SEPT. . | 13 4 53 | 13 0 11 | | OCT. . | 10 8 52 | 9 19 20 |
| | OCT. . | 12 17 42 | 12 17 27 | | NOV. . | { 8 21 36 | 8 8 32 |
| | NOV. . | 11 6 26 | 11 10 52 | | ○ | { 23 15 58 | 23 21 58 |
| | DEC. . | 10 19 10 | 11 3 23 | | DEC. . | 8 10 20 | 8 0 39 |
| 1777. E. | JAN. . | { 9 7 54 | 9 18 14 | 1780. B.A. | JAN. . | 6 23 4 | 6 19 2 |
| 20 8 45 | ○ | { 24 2 16 | 23 18 41 | 20 2 11 | FEB. . | 5 11 49 | 5 14 20 |
| | FEB. . | 7 20 38 | 8 7 2 | | MAR. . | 6 0 33 | 6 9 0 |
| | MAR. . | 9 9 22 | 9 17 47 | | APRIL | 4 13 17 | 5 1 33 |
| | APRIL | 7 22 6 | 8 2 48 | | MAY . | { 4 2 1 | 4 15 13 |
| | MAY . | 7 10 50 | 7 10 43 | | ○ | { 18 20 23 | 18 13 20 |
| | JUNE . | 5 23 34 | 5 18 20 | | JUNE . | 2 14 45 | 3 2 2 |
| | JULY . | { 5 12 18 | 5 2 43 | | JULY . | { 2 3 29 | 2 10 37 |
| | ○ | { 20 6 40 | 20 15 10 | | ○ | { 31 16 13 | 31 17 59 |
| | AUG. . | 4 1 2 | 3 12 56 | | AUG. . | 30 4 57 | 30 1 14 |
| | SEPT. . | 2 13 46 | 2 1 43 | | SEPT. . | 23 17 41 | 23 9 24 |
| | OCT. . | { 2 2 30 | 1 17 17 | | OCT. . | 23 6 25 | 27 19 16 |
| | ○ | { 31 15 14 | 31 11 5 | | ○ | { 12 0 47 | 12 6 51 |
| | NOV. . | 30 3 53 | 30 5 57 | | NOV. . | { 26 19 9 | 26 7 23 |
| | DEC. . | 29 16 42 | 30 0 25 | | DEC. . | 26 7 53 | 25 21 54 |
| 1778. D. | JAN. . | 28 5 26 | 28 17 9 | 1781. G. | JAN. . | 24 20 37 | 24 14 33 |
| 20 14 31 | FEB. . | 26 18 10 | 27 7 16 | 20 8 0 | FEB. . | 23 9 21 | 23 8 29 |
| | MAR. . | 23 6 55 | 23 18 40 | | MAR. . | 24 22 5 | 25 2 33 |
| | APRIL | 26 19 39 | 27 3 39 | | APRIL | 23 10 49 | 23 19 28 |
| | MAY . | 26 8 28 | 26 11 5 | | MAY . | 22 23 33 | 23 10 19 |
| | JUNE . | 24 21 7 | 24 17 53 | | JUNE . | 21 12 17 | 21 22 43 |
| | JULY . | 24 9 51 | 24 1 9 | | JULY . | 21 1 1 | 21 8 55 |
| | AUG. . | 22 22 35 | 22 10 1 | | AUG. . | 19 13 45 | 19 17 42 |
| | SEPT. . | 21 11 19 | 20 21 24 | | SEPT. . | 18 2 29 | 18 2 3 |
| | OCT. . | 21 0 3 | 20 11 52 | | OCT. . | 17 15 13 | 17 10 50 |
| | NOV. . | 19 12 47 | 19 5 13 | | NOV. . | 16 3 57 | 15 20 43 |
| | ○ | { 4 7 9 | 4 7 30 | | DEC. . | 15 16 41 | 15 8 3 |
| | DEC. . | { 19 1 31 | 19 0 24 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1782. F. March. d. h. m. 20 13 49 | | d. h. m. | d. h. m. | A.D. 1785. B. March. d. h. m. 20 7 15 | | d. h. m. | d. h. m. |
| | JAN. . | 14 5 25 | 13 20 59 | | JAN. . | 10 20 35 | 11 4 2 |
| | FEB. . | 12 18 9 | 12 11 27 | | FEB. . | 9 9 19 | 9 15 6 |
| | MAR. . | 14 6 54 | 14 3 11 | | MAR. . | 10 22 4 | 11 1 0 |
| | ○ | 29 1 16 | 29 10 51 | | APRIL | 9 10 48 | 9 10 2 |
| | APRIL | 12 19 38 | 12 19 37 | | MAY . | 8 23 32 | 8 18 49 |
| | MAY . | 12 8 22 | 12 12 1 | | JUNE . | 7 12 16 | 7 4 11 |
| | JUNE . | 10 21 6 | 11 3 31 | | JULY . | 7 1 0 | 6 15 4 |
| | JULY . | 10 9 50 | 10 17 31 | | AUG. . | 5 13 44 | 5 4 6 |
| | AUG. . | 8 22 34 | 9 5 48 | | SEPT. . | 4 2 28 | 3 19 21 |
| | SEPT. . | 7 11 18 | 7 16 40 | | OCT. . | 3 15 12 | 3 12 19 |
| | ○ | 22 5 40 | 21 16 38 | | NOV. . | 2 3 56 | 2 6 3 |
| | OCT. . | 7 0 2 | 7 2 46 | | DEC. . | 1 16 40 | 1 23 22 |
| | NOV. . | 5 12 46 | 5 12 45 | | | 31 5 24 | 31 15 19 |
| | DEC. . | 5 1 30 | 4 23 6 | | ○ | 14 23 46 | 14 15 4 |
| 1783. E. 20 19 38 | JAN. . | 3 14 14 | 3 10 3 | 1786. A. 20 13 4 | JAN. . | 29 18 8 | 30 5 13 |
| | FEB. . | 2 2 59 | 1 21 37 | | FEB. . | 28 6 52 | 28 16 55 |
| | MAR. . | 3 15 43 | 3 9 53 | | MAR. . | 29 19 36 | 30 2 35 |
| | ○ | 18 10 5 | 18 23 55 | | APRIL | 28 8 20 | 28 10 47 |
| | APRIL | 2 4 26 | 1 23 2 | | MAY . | 27 21 4 | 27 18 16 |
| | MAY . | 1 17 10 | 1 13 9 | | JUNE . | 26 9 48 | 26 2 1 |
| | ○ | 31 5 54 | 31 4 9 | | ○ | 11 4 10 | 11 13 3 |
| | JUNE . | 29 18 38 | 29 19 32 | | JULY . | 25 22 32 | 25 11 7 |
| | JULY . | 29 7 22 | 29 10 43 | | AUG. . | 24 11 16 | 23 22 31 |
| | AUG. . | 27 20 6 | 28 1 8 | | SEPT. . | 23 0 0 | 22 12 46 |
| | ○ | 11 14 23 | 11 1 37 | | OCT. . | 22 12 44 | 22 5 41 |
| | SEPT. . | 26 8 50 | 26 14 28 | | NOV. . | 21 1 23 | 21 0 21 |
| | OCT. . | 25 21 34 | 26 2 51 | | DEC. . | 20 14 12 | 20 19 21 |
| | NOV. . | 24 10 18 | 24 14 32 | | ○ | 4 8 34 | 4 2 4 |
| | DEC. . | 23 23 2 | 24 1 45 | 1787. G. 20 18 53 | JAN. . | 19 2 57 | 19 13 12 |
| 1784. D.C. 20 1 27 | JAN. . | 22 11 47 | 22 12 38 | | FEB. . | 17 15 41 | 18 4 43 |
| | FEB. . | 21 0 31 | 20 23 9 | | MAR. . | 19 4 25 | 19 17 22 |
| | ○ | 6 18 53 | 7 5 56 | | APRIL | 17 17 9 | 18 3 22 |
| | MAR. . | 21 13 15 | 21 9 33 | | MAY . | 17 5 53 | 17 11 21 |
| | APRIL | 20 1 59 | 19 20 16 | | JUNE . | 15 18 37 | 15 18 14 |
| | MAY . | 19 14 43 | 19 7 53 | | ○ | 30 12 59 | 30 17 1 |
| | JUNE . | 18 3 27 | 17 20 54 | | JULY . | 15 7 21 | 15 1 5 |
| | JULY . | 17 16 11 | 17 11 23 | | AUG. . | 13 20 5 | 13 9 1 |
| | AUG. . | 16 4 55 | 16 3 1 | | SEPT. . | 12 8 49 | 11 19 5 |
| | ○ | 30 23 17 | 30 16 46 | | OCT. . | 11 21 33 | 11 8 5 |
| | SEPT. . | 14 17 39 | 14 19 6 | | NOV. . | 10 10 17 | 10 0 8 |
| | OCT. . | 14 6 23 | 14 10 54 | | DEC. . | 9 23 1 | 9 18 38 |
| | NOV. . | 12 19 7 | 13 1 51 | | ○ | 24 17 23 | 24 17 22 |
| | DEC. . | 12 7 51 | 12 15 36 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1788. F.E. March. <i>d. h. m.</i> 20 0 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1791. B. March. <i>d. h. m.</i> 20 18 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 11 45 | 8 14 13 | | JAN. . | 5 2 55 | 4 18 42 |
| | FEB. . | 7 0 30 | 7 9 13 | | FEB. . | 3 15 40 | 3 8 15 |
| | MAR. . | 7 13 14 | 8 2 5 | | MAR. . | 5 4 24 | 4 23 8 |
| | APRIL | 6 1 53 | 6 15 58 | | APRIL { | 3 17 8 | 3 15 0 |
| | MAY . | 5 14 42 | 6 2 50 | | ○ { | 18 11 30 | 18 19 15 |
| | JUNE . | 4 3 26 | 4 11 17 | | MAY . | 3 5 52 | 3 7 18 |
| | JULY . | 3 16 10 | 3 18 19 | | JUNE . | 1 18 36 | 1 23 13 |
| | AUG. . | { 2 4 54 | 2 1 1 | | JULY . | { 1 7 20 | 1 14 2 |
| | | { 31 17 38 | 31 8 31 | | | { 30 20 4 | 31 3 19 |
| | SEPT. . | 30 6 22 | 29 17 47 | | AUG. . | 29 8 48 | 29 15 4 |
| | OCT. . | 29 19 6 | 29 5 37 | | SEPT. . | 27 21 32 | 28 1 44 |
| | NOV. . | 28 7 50 | 27 20 21 | | ○ { | 12 15 54 | 12 3 55 |
| | DEC. . | 27 20 34 | 27 13 41 | | OCT. . | { 27 10 16 | 27 11 57 |
| | | | | | NOV. . | 25 23 0 | 25 22 16 |
| | | | | | DEC. . | 25 11 44 | 25 8 59 |
| 1789. D. 20 6 31 | JAN. . | 26 9 18 | 26 8 37 | | | | |
| | FEB. . | 24 22 2 | 25 3 39 | | | | |
| | MAR. . | 26 10 46 | 26 21 16 | 1792. A.G. 19 23 57 | JAN. . | 24 0 28 | 23 20 9 |
| | APRIL | 24 23 30 | 25 12 22 | | FEB. . | 22 13 12 | 22 7 52 |
| | ○ { | 9 17 52 | 9 11 45 | | MAR. . | 23 1 56 | 22 20 16 |
| | MAY . | { 24 12 14 | 25 0 32 | | APRIL | 21 14 40 | 21 9 35 |
| | JUNE . | 23 0 58 | 23 10 9 | | MAY . | 21 3 24 | 20 23 56 |
| | JULY . | 22 13 42 | 22 18 3 | | JUNE . | 19 16 8 | 19 15 3 |
| | AUG. . | 21 2 26 | 21 1 23 | | JULY . | 19 4 52 | 19 6 27 |
| | SEPT. . | 19 15 10 | 19 9 8 | | AUG. . | 17 17 36 | 17 21 23 |
| | OCT. . | 19 3 54 | 18 13 14 | | SEPT. . | 16 6 20 | 16 11 38 |
| | ○ { | 2 22 16 | 3 2 42 | | OCT. . | 15 19 4 | 16 0 46 |
| | NOV. . | { 17 16 33 | 17 5 16 | | NOV. . | 14 7 43 | 14 13 2 |
| | DEC. . | 17 5 22 | 16 13 35 | | DEC. . | 13 20 32 | 14 0 33 |
| 1790. C. 20 12 20 | JAN. . | 15 18 7 | 15 10 10 | 1793. F. 20 5 46 | JAN. . | 12 9 17 | 12 11 43 |
| | FEB. . | 14 6 51 | 14 3 22 | | FEB. . | { 10 22 1 | 10 22 13 |
| | MAR. . | 15 19 35 | 15 21 17 | | ○ { | 25 16 23 | 26 1 5 |
| | APRIL | { 14 8 19 | 14 14 45 | | MAR. . | 12 10 45 | 12 8 32 |
| | ○ { | 29 2 41 | 29 2 23 | | APRIL | 10 23 29 | 10 18 46 |
| | MAY . | 13 21 3 | 14 6 37 | | MAY . | 10 12 13 | 10 5 44 |
| | JUNE . | 12 9 47 | 12 20 14 | | JUNE . | 9 0 57 | 8 17 35 |
| | JULY . | 11 22 31 | 12 7 34 | | JULY . | 8 13 41 | 8 7 14 |
| | AUG. . | 10 11 15 | 10 17 7 | | AUG. . | { 7 2 25 | 6 22 22 |
| | SEPT. . | 8 23 59 | 9 1 46 | | ○ { | 21 20 47 | 21 16 53 |
| | OCT. . | { 8 12 43 | 8 10 23 | | SEPT. . | 5 15 9 | 5 14 29 |
| | ○ { | 23 7 5 | 23 3 13 | | OCT. . | 5 3 53 | 5 6 47 |
| | NOV. . | 7 1 27 | 6 19 55 | | NOV. . | 3 16 37 | 3 22 30 |
| | DEC. . | 6 14 11 | 6 6 36 | | DEC. . | 3 5 21 | 3 13 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------|----------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| A.D. 1794. E. | | d. h. m. | d. h. m. | A.D. 1797. A. March. d. h. m. 20 5 1 | | d. h. m. | d. h. m. |
| March. d. h. m. 20 11 35 | JAN. . | { 1 18 5 | 2 2 22 | JAN. . | 27 22 0 | 28 3 58 | |
| | FEB. ○ | { 31 6 50 | 31 14 9 | FEB. . | 26 10 44 | 26 21 55 | |
| | MAR. . | { 1 19 34 | 2 0 31 | MAR. . | 27 23 28 | 28 13 16 | |
| | APRIL | { 31 8 18 | 31 9 43 | APRIL | 26 12 12 | 27 1 32 | |
| | MAY . | 29 21 2 | 29 18 17 | MAY . | 26 0 56 | 26 11 2 | |
| | JUNE . | 29 9 46 | 29 3 1 | ○ | { 9 19 18 | 9 13 46 | |
| | JULY . | 27 22 30 | 27 12 53 | JUNE . | { 24 13 40 | 24 18 37 | |
| | ○ | { 11 5 36 | 11 9 36 | JULY . | 24 2 24 | 24 1 22 | |
| | AUG. . | { 25 23 58 | 25 14 52 | AUG. . | 22 15 8 | 22 8 26 | |
| | SEPT. . | 24 12 42 | 24 7 13 | SEPT. . | 21 3 52 | 20 16 49 | |
| | OCT. . | 24 1 26 | 24 0 54 | OCT. . | 20 16 36 | 20 3 25 | |
| | NOV. . | 22 14 10 | 22 18 43 | NOV. . | 19 5 20 | 18 16 45 | |
| | DEC. . | 22 2 54 | 22 11 45 | ○ | { 3 23 42 | 4 6 36 | |
| 1795. D. 20 17 24 | JAN. . | 20 15 38 | 21 2 50 | 1798. G. 20 10 50 | JAN. . | 17 6 48 | 17 3 3 |
| | ○ | { 4 10 0 | 4 2 56 | FEB. . | 15 19 32 | 15 22 6 | |
| | FEB. . | { 19 4 22 | 19 15 36 | MAR. . | 17 8 16 | 17 16 27 | |
| | MAR. . | 20 17 6 | 21 2 8 | APRIL | 15 21 0 | 16 8 47 | |
| | APRIL | 19 5 50 | 19 10 50 | MAY . | { 15 9 44 | 15 22 22 | |
| | MAY . | 18 18 34 | 18 18 23 | ○ | { 30 4 6 | 29 20 30 | |
| | JUNE . | 17 7 18 | 17 1 43 | JUNE . | 13 22 28 | 14 9 11 | |
| | JULY . | { 16 20 2 | 16 9 54 | JULY . | 13 11 12 | 13 17 54 | |
| | ○ | { 31 14 24 | 31 22 13 | AUG. . | 11 23 56 | 12 1 30 | |
| | AUG. . | 15 8 46 | 14 20 3 | SEPT. . | 10 12 40 | 10 9 6 | |
| | SEPT. . | 13 21 30 | 13 8 53 | OCT. . | 10 1 24 | 9 17 35 | |
| | OCT. . | 13 10 14 | 13 0 38 | NOV. . | { 8 14 8 | 8 3 44 | |
| | NOV. . | 11 22 58 | 11 18 43 | ○ | { 23 8 30 | 23 14 55 | |
| DEC. . | 11 11 42 | 11 13 53 | DEC. . | 8 2 52 | 7 15 55 | | |
| 1796. C.B. 19 23 13 | JAN. . | 10 0 26 | 10 8 36 | 1799. F. 20 16 39 | JAN. . | 6 15 36 | 6 6 19 |
| | FEB. . | 8 13 11 | 9 1 25 | FEB. . | 5 4 21 | 4 22 33 | |
| | MAR. . | 9 1 55 | 9 15 29 | MAR. . | 6 17 5 | 6 15 6 | |
| | APRIL | 7 14 39 | 8 2 42 | APRIL | 5 5 49 | 5 9 43 | |
| | MAY . | 7 3 23 | 7 11 25 | MAY . | 4 13 33 | 5 2 21 | |
| | JUNE . | 5 16 7 | 5 18 38 | JUNE . | 3 7 17 | 3 17 6 | |
| | JULY . | 5 4 51 | 5 1 18 | JULY . | 2 20 1 | 3 5 37 | |
| | AUG. . | 3 17 35 | 3 8 33 | AUG. . | { 1 8 45 | 1 16 7 | |
| | SEPT. . | 2 6 19 | 1 17 30 | ○ | { 30 21 29 | 31 1 19 | |
| | ○ | { 1 19 3 | 1 5 2 | SEPT. . | 29 10 13 | 29 10 6 | |
| | OCT. . | { 31 7 47 | 30 19 38 | OCT. . | 28 22 57 | 28 19 19 | |
| | NOV. . | 29 20 31 | 29 13 7 | NOV. . | 27 11 41 | 27 5 29 | |
| | ○ | { 14 14 53 | 14 16 25 | DEC. . | 27 0 25 | 26 16 52 | |
| | DEC. . | { 29 9 15 | 29 8 23 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1800. E. March. d. h. m. 20 22 28 | | d. h. m. | d. h. m. | A.D. 1803. B. March. d. h. m. 21 15 54 | | d. h. m. | d. h. m. |
| | JAN. . | 25 13 9 | 25 5 35 | | JAN. . | 23 4 19 | 23 12 50 |
| | FEB. . | 24 1 53 | 23 19 36 | | FEB. . | 21 17 3 | 21 23 49 |
| | MAR. . | 25 14 37 | 25 10 43 | | MAR. . | 23 5 47 | 23 9 23 |
| | ○ | { 9 8 59 | 9 18 54 | | APRIL | 21 18 31 | 21 17 59 |
| | APRIL | { 24 3 21 | 24 2 36 | | MAY . | 21 7 15 | 21 2 19 |
| | MAY . | 23 16 5 | 23 18 33 | | JUNE . | 19 19 59 | 19 11 18 |
| | JUNE . | 22 4 49 | 22 10 3 | | JULY . | 19 8 43 | 18 21 56 |
| | JULY . | 21 17 33 | 22 0 14 | | AUG. . | 17 21 27 | 17 10 53 |
| | AUG. . | 20 6 17 | 20 12 56 | | SEPT. . | 16 10 11 | 16 2 18 |
| | SEPT. . | 18 19 1 | 19 0 19 | | OCT. . | 15 22 55 | 15 19 36 |
| | ○ | { 3 13 23 | 3 0 4 | | NOV. . | 14 11 39 | 14 13 46 |
| | OCT. . | { 18 7 45 | 18 10 57 | | DEC. . | 14 0 23 | 14 7 33 |
| | NOV. . | 16 20 29 | 16 21 24 | | | | |
| | DEC. . | 16 9 14 | 16 8 1 | 1804. A.G. | JAN. . | { 12 13 7 | 12 23 46 |
| 1801. D. 21 4 17 | JAN. . | 14 21 58 | 14 18 58 | | ○ | { 27 7 30 | 26 23 31 |
| | FEB. . | 13 10 42 | 13 6 14 | 20 21 43 | FEB. . | 11 1 52 | 11 13 47 |
| | MAR. . | { 14 23 26 | 14 18 1 | | MAR. . | 11 14 36 | 12 1 20 |
| | ○ | { 29 17 43 | 30 7 48 | | APRIL | 10 3 20 | 10 10 43 |
| | APRIL | 13 12 10 | 13 6 33 | | MAY . | 9 16 4 | 9 18 35 |
| | MAY . | 13 0 54 | 12 20 6 | | JUNE . | 8 4 43 | 8 1 44 |
| | JUNE . | 11 13 33 | 11 10 42 | | JULY . | { 7 17 32 | 7 9 17 |
| | JULY . | 11 2 22 | 11 2 0 | | ○ | { 22 11 54 | 22 19 55 |
| | AUG. . | 9 15 6 | 9 17 22 | | AUG. . | 6 6 16 | 5 18 17 |
| | SEPT. . | { 8 3 50 | 8 8 13 | | SEPT. . | 4 19 0 | 4 5 43 |
| | ○ | { 22 22 12 | 22 9 24 | | OCT. . | 4 7 44 | 3 20 5 |
| | OCT. . | 7 16 34 | 7 22 10 | | NOV. . | 2 20 28 | 2 13 14 |
| | NOV. . | 6 5 13 | 6 11 8 | | DEC. . | { 2 9 12 | 2 8 11 |
| | DEC. . | 5 18 2 | 5 23 16 | | | { 31 21 56 | ... |
| 1802. C. 21 10 6 | JAN. . | 4 6 46 | 4 10 42 | | | | 1 3 26 |
| | FEB. . | 2 19 30 | 2 21 30 | 1805. F. | JAN. ○ | { 15 16 18 | 15 10 56 |
| | MAR. . | { 4 8 14 | 4 7 42 | | | { 30 10 41 | 30 21 25 |
| | ○ | { 19 2 36 | 19 13 30 | | FEB. . | 23 23 25 | { 1 12 53 |
| | APRIL | 2 20 59 | 2 17 33 | 21 3 32 | MAR. . | 30 12 9 | { 31 1 24 |
| | MAY . | { 2 9 43 | 2 3 43 | | APRIL | 29 0 53 | 29 11 10 |
| | JUNE . | { 31 22 27 | 31 14 54 | | MAY . | 28 13 37 | 28 18 56 |
| | JULY . | 30 11 11 | 30 3 33 | | JUNE . | 27 2 21 | 27 1 41 |
| | AUG. . | 28 12 39 | 28 9 43 | | ○ | { 11 20 43 | 11 23 31 |
| | ○ | { 12 7 1 | 12 0 39 | | JULY . | { 26 15 5 | 26 8 31 |
| | SEPT. . | { 27 1 23 | 27 2 18 | | AUG. . | 25 3 49 | 24 16 31 |
| | OCT. . | 26 14 7 | 26 18 37 | | SEPT. . | 23 16 33 | 23 2 43 |
| | NOV. . | 25 2 51 | 25 10 7 | | OCT. . | 23 5 17 | 22 16 12 |
| | DEC. . | 24 15 35 | 25 0 17 | | NOV. . | 21 18 1 | 21 8 2 |
| | | | | | DEC. . | 21 6 45 | 21 2 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1806. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1809. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | ○ | 5 1 7 | 5 2 21 | A. | JAN. . | 16 10 39 | 16 3 27 |
| March. | JAN. . | 19 19 30 | 19 22 11 | March. | FEB. . | 14 23 23 | 14 16 37 |
| <i>d. h. m.</i> | FEB. . | 18 8 13 | 18 17 4 | <i>d. h. m.</i> | MAR. . | 16 12 7 | 16 6 55 |
| 21 9 21 | MAR. . | 19 20 57 | 20 9 48 | 21 2 47 | APRIL | 15 0 51 | 14 22 11 |
| | APRIL | 18 9 41 | 18 23 32 | ○ | ○ | 29 19 13 | 30 3 5 |
| | MAY . | 17 22 25 | 18 10 16 | MAY . | MAY . | 14 13 35 | 14 14 1 |
| | JUNE . | 16 11 9 | 16 18 41 | JUNE . | JUNE . | 13 2 19 | 13 5 43 |
| | JULY . | 15 23 53 | 16 1 44 | JULY . | JULY . | 12 15 3 | 12 20 37 |
| | AUG. . | 14 12 37 | 14 8 36 | AUG. . | AUG. . | 11 3 47 | 11 10 18 |
| | SEPT. . | 13 1 21 | 12 16 19 | SEPT. . | SEPT. . | 9 16 31 | 9 22 24 |
| | OCT. . | 12 14 5 | 12 1 49 | OCT. . | ○ | 9 5 15 | 9 9 43 |
| | NOV. . | 11 2 49 | 10 13 50 | ○ | ○ | 23 23 37 | 23 11 33 |
| | DEC. . | 10 15 33 | 10 4 36 | NOV. . | NOV. . | 7 17 59 | 7 20 26 |
| | | | | DEC. . | DEC. . | 7 6 43 | 7 7 7 |
| 1807. | JAN. . | 9 4 17 | 8 21 48 | | | | |
| D. | FEB. . | 7 17 2 | 7 16 29 | 1810. | JAN. . | 5 19 27 | 5 17 56 |
| 21 15 10 | MAR. . | 9 5 46 | 9 11 13 | G. | FEB. . | 4 8 11 | 4 4 56 |
| | APRIL | 7 18 30 | 8 4 34 | 21 8 36 | MAR. . | 5 20 55 | 5 16 12 |
| | MAY . | 7 7 14 | 7 19 29 | | APRIL | 4 9 40 | 4 4 2 |
| | ○ | 22 1 36 | 21 19 7 | | MAY . | 3 22 24 | 3 16 46 |
| | JUNE . | 5 19 58 | 6 7 39 | | JUNE . | 2 11 8 | 2 6 38 |
| | JULY . | 5 8 42 | 5 17 21 | | JULY . | 1 23 52 | 1 21 31 |
| | AUG. . | 3 21 26 | 4 1 20 | | ○ | 31 12 36 | 31 12 59 |
| | SEPT. . | 2 10 10 | 2 9 9 | | AUG. . | 30 1 20 | 30 4 20 |
| | ○ | 1 22 54 | 1 17 15 | | SEPT. . | 28 14 4 | 28 19 2 |
| | ○ | 31 11 38 | 31 2 39 | | OCT. . | 28 2 48 | 28 8 58 |
| | ○ | 15 6 0 | 15 10 36 | | NOV. . | 26 15 32 | 26 21 36 |
| | NOV. . | 30 0 22 | 29 13 51 | | DEC. . | 26 4 16 | 26 9 31 |
| | DEC. . | 29 13 6 | 29 3 9 | | | | |
| 1808. | JAN. . | 28 1 51 | 27 18 26 | 1811. | JAN. . | 24 17 0 | 24 20 38 |
| C.B. | FEB. . | 26 14 35 | 26 11 11 | F. | FEB. . | 23 5 44 | 23 7 0 |
| 20 20 59 | MAR. . | 27 3 19 | 27 4 37 | ○ | ○ | 10 0 6 | 10 8 40 |
| | APRIL | 25 16 3 | 25 21 40 | 21 14 25 | MAR. . | 24 18 28 | 24 16 48 |
| | ○ | 10 10 25 | 10 10 7 | | APRIL | 23 7 12 | 23 2 29 |
| | MAY . | 25 4 47 | 25 13 22 | | MAY . | 22 19 56 | 22 12 46 |
| | JUNE . | 23 17 31 | 24 3 3 | | JUNE . | 21 8 40 | 21 0 23 |
| | JULY . | 23 6 15 | 23 14 36 | | JULY . | 20 21 24 | 20 13 43 |
| | AUG. . | 21 18 59 | 22 0 33 | | AUG. . | 19 10 8 | 19 4 53 |
| | SEPT. . | 20 7 43 | 20 9 41 | | ○ | 3 4 30 | 3 0 39 |
| | OCT. . | 19 20 27 | 19 18 49 | | SEPT. . | 17 22 52 | 17 21 24 |
| | ○ | 3 14 49 | 3 10 51 | | OCT. . | 17 11 36 | 17 14 13 |
| | NOV. . | 18 9 11 | 18 4 37 | | NOV. . | 16 0 20 | 16 6 32 |
| | DEC. . | 17 21 55 | 17 15 27 | | DEC. . | 15 13 4 | 15 21 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1812. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1815. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E.D. | JAN. . | 14 1 49 | 14 11 9 | A. | JAN. . | 10 16 58 | 10 16 20 |
| March. | FEB. . | 12 14 33 | 12 22 54 | March. | FEB. . | 9 5 43 | 9 11 44 |
| <i>d. h. m.</i> | ○ | 27 8 55 | 27 8 12 | <i>d. h. m.</i> | MAR. . | 10 18 27 | 11 5 38 |
| 20 20 14 | MAR. . | 13 3 17 | 13 9 0 | 21 13 40 | APRIL | 9 7 11 | 9 20 49 |
| | APRIL | 11 16 1 | 11 17 48 | | MAY . | 8 19 55 | 9 8 57 |
| | MAY . | 11 4 45 | 11 1 56 | | JUNE . | 7 8 39 | 7 18 23 |
| | JUNE . | 9 17 29 | 9 10 17 | | ○ | 22 3 1 | 21 20 23 |
| | JULY . | 9 6 13 | 8 19 52 | | JULY . | 6 21 23 | 7 2 0 |
| | AUG. . | 7 18 57 | 7 7 33 | | AUG. . | 5 10 7 | 5 8 54 |
| | ○ | 22 13 19 | 22 17 7 | | SEPT. . | 3 22 51 | 3 16 11 |
| | SEPT. . | 6 7 41 | 5 21 46 | | OCT. . | 3 11 35 | 3 0 50 |
| | OCT. . | 5 20 25 | 5 14 21 | | NOV. . | 2 0 19 | 1 11 37 |
| | NOV. . | 4 9 9 | 4 8 23 | | DEC. ○ | 1 13 3 | 1 1 3 |
| | DEC. . | 3 21 53 | 4 2 48 | | | 16 7 25 | 16 15 15 |
| | | | | | | 31 1 47 | 30 17 4 |
| 1813. | JAN. . | 2 10 37 | 2 20 6 | | | | |
| C. | FEB. ○ | 31 23 22 | 1 11 20 | 1816. | JAN. . | 29 14 32 | 29 11 3 |
| 21 2 3 | MAR. . | 15 17 44 | 15 11 9 | G.F. | FEB. . | 28 3 16 | 28 5 45 |
| | | 2 12 6 | 3 0 3 | 20 19 29 | MAR. . | 28 16 0 | 28 23 47 |
| | APRIL | 1 0 50 | 1 10 21 | | APRIL | 27 4 44 | 27 15 55 |
| | | 30 13 34 | 30 18 42 | | MAY . | 26 17 28 | 27 5 25 |
| | MAY . | 30 2 18 | 30 1 57 | | ○ | 10 11 50 | 10 3 37 |
| | JUNE . | 28 15 2 | 28 9 4 | | JUNE . | 25 6 12 | 25 16 18 |
| | JULY . | 23 3 46 | 27 17 9 | | JULY . | 24 18 56 | 25 1 14 |
| | ○ | 11 22 8 | 12 5 13 | | AUG. . | 23 7 40 | 23 9 9 |
| | AUG. . | 26 16 30 | 26 3 16 | | SEPT. . | 21 20 24 | 21 17 5 |
| | SEPT. . | 25 5 14 | 24 16 12 | | OCT. . | 21 9 8 | 21 1 57 |
| | OCT. . | 24 17 58 | 24 8 9 | | NOV. . | 19 21 52 | 19 12 19 |
| | NOV. . | 23 6 42 | 23 2 28 | | ○ | 4 16 14 | 4 23 6 |
| | DEC. . | 22 19 26 | 22 21 52 | | DEC. . | 19 10 36 | 19 0 34 |
| 1814. | JAN. . | 21 8 10 | 21 16 43 | | | | |
| B. | FEB. . | 19 20 54 | 20 9 32 | 1817. | JAN. . | 17 23 20 | 17 14 47 |
| 21 7 51 | MAR. . | 21 9 38 | 21 23 30 | E. | FEB. . | 16 12 4 | 16 6 39 |
| | APRIL | 19 22 22 | 20 10 28 | 21 1 18 | MAR. . | 18 0 48 | 17 23 36 |
| | MAY . | 19 11 6 | 19 19 2 | | APRIL | 16 13 32 | 16 16 46 |
| | JUNE . | 17 23 50 | 18 2 6 | | MAY . | 16 2 16 | 16 9 6 |
| | JULY . | 17 12 34 | 17 8 44 | | JUNE . | 14 15 0 | 14 23 43 |
| | AUG. . | 16 1 18 | 15 16 3 | | JULY . | 14 3 44 | 14 12 30 |
| | SEPT. . | 14 14 2 | 14 1 7 | | AUG. . | 12 16 28 | 12 23 21 |
| | OCT. . | 14 2 46 | 13 12 47 | | SEPT. . | 11 5 12 | 11 9 0 |
| | NOV. . | 12 15 30 | 12 3 33 | | OCT. . | 10 17 56 | 10 18 16 |
| | DEC. . | 12 4 14 | 11 21 5 | | NOV. . | 9 6 40 | 9 3 54 |
| | ○ | 26 22 36 | 27 1 21 | | DEC. . | 8 19 24 | 8 14 20 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1818. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1821. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. March. <i>d. h. m.</i> 21 7 7 | JAN. . | 7 8 8 | 7 1 43 | G. March. <i>d. h. m.</i> 21 0 33 | JAN. . | 3 23 18 | 4 8 56 |
| | FEB. . | 5 20 53 | 5 14 9 | | FEB. . | 2 12 2 | 2 21 36 |
| | MAR. . | 7 9 37 | 7 3 39 | | MAR. . | 4 0 46 | 4 8 24 |
| | APRIL . | 5 22 21 | 5 18 10 | | APRIL . | 2 13 31 | 2 17 37 |
| | ○ | { 20 16 43 | 21 2 49 | | MAY . | { 2 2 15 | 2 1 48 |
| | MAY . | 5 11 5 | 5 9 31 | | | { 31 14 59 | 31 9 44 |
| | JUNE . | 3 23 49 | 4 1 13 | | JUNE . | 30 3 43 | 29 18 25 |
| | JULY . | 3 12 33 | 3 16 34 | | JULY . | 29 16 27 | 29 4 52 |
| | AUG. . | { 2 1 17 | 2 6 58 | | AUG. . | 23 5 11 | 27 17 49 |
| | | { 31 14 1 | 31 20 6 | | SEPT. . | 26 17 55 | 26 9 23 |
| | SEPT. . | 30 2 45 | 30 8 5 | | OCT. . | 26 6 39 | 26 3 1 |
| | ○ | { 14 21 7 | 14 7 42 | | NOV. . | 24 19 23 | 24 21 37 |
| | OCT. . | { 29 15 29 | 29 19 17 | | DEC. . | 24 8 7 | 24 15 46 |
| | NOV. . | 23 4 13 | 23 6 9 | | | | |
| | DEC. . | 27 16 57 | 27 17 0 | | | | |
| 1819. | JAN. . | 26 5 42 | 26 3 52 | 1822. | JAN. . | 22 20 51 | 23 8 12 |
| C. 21 12 56 | FEB. . | 24 18 26 | 24 14 48 | F | ○ | { 6 15 13 | 6 7 55 |
| | MAR. . | 26 7 10 | 26 2 3 | | FEB. . | { 21 9 35 | 21 22 12 |
| | ○ | { 10 1 32 | 10 15 31 | 21 6 22 | MAR. . | 22 22 20 | 23 9 35 |
| | APRIL . | { 24 19 54 | 24 13 58 | | APRIL . | 21 11 4 | 21 18 41 |
| | MAY . | 24 8 38 | 24 2 59 | | MAY . | 20 23 48 | 21 2 14 |
| | JUNE . | 22 21 22 | 22 17 14 | | JUNE . | 19 12 32 | 19 9 11 |
| | JULY . | 22 10 6 | 22 8 26 | | JULY . | 19 1 16 | 18 16 35 |
| | AUG. . | 20 22 50 | 21 0 3 | | ○ | { 2 19 38 | 3 2 49 |
| | SEPT. . | 19 11 34 | 19 15 23 | | AUG. . | { 17 14 0 | 17 1 33 |
| | ○ | { 4 5 56 | 3 17 18 | | SEPT. . | 16 2 44 | 15 13 3 |
| | OCT. . | { 19 0 18 | 19 5 57 | | OCT. . | 15 15 23 | 15 8 35 |
| | NOV. . | 17 13 2 | 17 19 31 | | NOV. . | 14 4 12 | 13 20 56 |
| | DEC. . | 17 1 46 | 17 8 4 | | DEC. . | 13 16 56 | 13 16 5 |
| 1820. | JAN. . | 15 14 30 | 15 19 38 | 1823. | JAN. . | { 12 5 40 | 12 11 29 |
| B.A. 20 18 44 | FEB. . | 14 3 14 | 14 6 18 | E. | ○ | { 27 0 2 | 26 19 46 |
| | MAR. . | { 14 15 58 | 14 16 10 | | FEB. . | 10 18 24 | 11 5 29 |
| | ○ | { 29 10 20 | 29 20 56 | 21 12 11 | MAR. . | 12 7 8 | 12 20 53 |
| | APRIL . | 13 4 42 | 13 1 34 | | APRIL . | 10 19 52 | 11 9 14 |
| | MAY . | 12 17 26 | 12 11 12 | | MAY . | 10 8 36 | 10 18 49 |
| | JUNE . | 11 6 10 | 10 21 51 | | JUNE . | 8 21 20 | 9 2 26 |
| | JULY . | 10 18 54 | 10 10 12 | | JULY . | { 8 10 4 | 8 9 8 |
| | AUG. . | 9 7 38 | 9 0 30 | | ○ | { 23 4 26 | 23 5 59 |
| | SEPT. . | { 7 20 22 | 7 16 31 | | AUG. . | 6 22 48 | 6 16 0 |
| | ○ | { 22 14 44 | 22 8 36 | | SEPT. . | 5 11 32 | 5 0 7 |
| | OCT. . | 7 9 6 | 7 9 28 | | OCT. . | 5 0 16 | 4 10 30 |
| | NOV. . | 5 21 50 | 6 2 24 | | NOV. . | 3 13 0 | 2 23 47 |
| | DEC. . | 5 10 34 | 5 18 27 | | DEC. . | 3 1 44 | 2 16 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------|---------|------------------------------------|------------------------------------|------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1824. D.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1827. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. ○ | 1 14 28 | 1 10 36 | March. | JAN. . | 27 18 22 | 27 12 10 |
| | | 16 8 51 | 16 11 20 | <i>d. h. m.</i> | FEB. . | 26 7 6 | 26 0 54 |
| | | 31 3 13 | 31 6 34 | 21 11 26 | MAR. . | 27 19 51 | 27 14 37 |
| March. | FEB. . | 29 15 57 | 1 0 48 | | APRIL | 26 8 35 | 26 5 18 |
| <i>d. h. m.</i> | MAR. . | 30 4 41 | 30 17 22 | ○ | MAY . | 11 2 57 | 11 10 48 |
| 20 18 0 | APRIL | 28 17 25 | 29 6 57 | | JUNE . | 25 21 19 | 25 20 40 |
| | MAY . | 28 6 9 | 28 17 37 | | JULY . | 24 10 3 | 24 12 11 |
| | JUNE . | 26 18 53 | 27 2 1 | | AUG. . | 23 22 47 | 24 3 12 |
| | ○ | 11 13 15 | 11 6 45 | | SEPT. . | 22 11 31 | 22 17 11 |
| | JULY . | 26 7 37 | 26 9 13 | | OCT. . | 21 0 15 | 21 6 0 |
| | AUG. . | 21 20 21 | 24 16 18 | | NOV. . | 20 12 59 | 20 17 49 |
| | SEPT. . | 23 9 5 | 23 0 16 | | ○ | 4 7 21 | 3 19 20 |
| | OCT. . | 22 21 49 | 22 10 3 | | DEC. . | 19 1 43 | 19 5 4 |
| | NOV. . | 21 10 33 | 20 22 11 | | | 18 14 27 | 18 16 3 |
| | DEC. . | 20 23 17 | 20 12 57 | | | | |
| 1825. D. | JAN. . | 19 12 1 | 19 5 56 | 1828. F.E. | JAN. . | 17 3 11 | 17 2 54 |
| | FEB. . | 18 0 45 | 18 0 15 | | FEB. . | 15 15 55 | 15 13 40 |
| 20 23 49 | MAR. . | 19 13 29 | 19 18 37 | 20 17 15 | MAR. . | 16 4 39 | 16 0 28 |
| | APRIL | 18 2 13 | 18 11 41 | | APRIL | 14 17 23 | 14 11 42 |
| | MAY . | 17 14 57 | 18 2 28 | | MAY . | 14 6 7 | 13 23 50 |
| | ○ | 1 9 19 | 1 2 25 | | JUNE . | 12 18 51 | 12 13 16 |
| | JUNE . | 16 3 41 | 16 14 38 | | JULY . | 12 7 35 | 12 3 57 |
| | JULY . | 15 16 25 | 16 0 32 | | AUG. . | 10 20 19 | 10 19 31 |
| | AUG. . | 14 5 9 | 14 8 58 | | SEPT. . | 9 9 3 | 9 11 16 |
| | SEPT. . | 12 17 53 | 12 16 59 | | OCT. . | 8 21 47 | 9 2 33 |
| | OCT. . | 12 6 37 | 12 1 23 | | NOV. . | 7 10 31 | 7 16 56 |
| | NOV. . | 10 19 21 | 10 11 12 | | DEC. . | 6 23 15 | 7 6 14 |
| | ○ | 25 13 43 | 25 18 33 | | | | |
| | DEC. . | 10 8 5 | 9 22 33 | 1829. D. | JAN. . | 5 11 59 | 5 13 24 |
| 1826. A. | JAN. . | 8 20 49 | 8 11 44 | | FEB. . | 4 0 44 | 4 5 31 |
| | FEB. . | 7 9 33 | 7 2 38 | 20 23 4 | MAR. . | 5 13 23 | 5 15 36 |
| 21 5 37 | MAR. . | 8 22 17 | 8 18 54 | | ○ | 20 7 50 | 20 16 9 |
| | APRIL | 7 11 2 | 7 11 48 | | APRIL | 4 2 12 | 4 0 57 |
| | MAY . | 6 23 46 | 7 4 23 | | MAY . | 3 14 56 | 3 10 7 |
| | ○ | 21 18 8 | 21 17 48 | | JUNE . | 2 3 40 | 1 19 55 |
| | JUNE . | 5 12 30 | 5 20 0 | | JULY . | 1 16 24 | 1 7 11 |
| | JULY . | 5 1 14 | 5 9 47 | | AUG. . | 31 5 8 | 30 20 26 |
| | AUG. . | 3 13 58 | 3 21 40 | | ○ | 29 17 52 | 29 11 42 |
| | SEPT. . | 2 2 42 | 2 8 3 | | SEPT. . | 13 12 14 | 13 8 31 |
| | ○ | 1 15 26 | 1 17 30 | | ○ | 28 6 36 | 28 4 29 |
| | OCT. . | 31 4 10 | 31 3 16 | | OCT. . | 27 19 20 | 27 21 48 |
| | ○ | 14 22 32 | 14 18 28 | | NOV. . | 26 8 4 | 26 14 39 |
| | NOV. . | 29 16 54 | 29 13 25 | | DEC. . | 25 20 48 | 26 6 11 |
| | DEC. . | 29 5 38 | 29 0 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1830. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1833. f. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 21 4 52 | JAN. . | 24 9 33 | 24 19 53 | March. <i>d. h. m.</i> 20 22 19 | ○ | { 6 6 20 | 6 10 19 |
| | FEB. . | 22 22 17 | 23 7 32 | | JAN. . | { 21 0 42 | 21 0 17 |
| | ○ | { 9 16 39 | 9 15 50 | | FEB. . | 19 13 27 | 19 19 31 |
| | MAR. . | { 24 11 1 | 24 17 21 | | MAR. . | 21 2 11 | 21 13 11 |
| | APRIL | 22 23 45 | 23 1 46 | | APRIL | 19 14 55 | 20 4 13 |
| | MAY . | 22 12 29 | 22 9 4 | | MAY . | 19 3 39 | 19 16 16 |
| | JUNE . | 21 1 13 | 20 17 33 | | JUNE . | 17 16 23 | 18 1 42 |
| | JULY . | 20 13 57 | 20 2 53 | | ○ | { 2 10 45 | 2 3 2 |
| | AUG. . | 19 2 41 | 18 14 29 | | JULY . | { 17 5 7 | 17 9 24 |
| | ○ | { 2 21 3 | 3 0 44 | | AUG. . | 15 17 51 | 15 16 31 |
| | SEPT. . | { 17 15 25 | 17 4 49 | | SEPT. . | 14 6 35 | 14 0 3 |
| | OCT. . | 17 4 9 | 16 21 40 | | OCT. . | 13 19 19 | 13 8 59 |
| | NOV. . | 15 16 53 | 15 16 8 | | NOV. . | 12 8 3 | 11 20 0 |
| | DEC. . | 15 5 37 | 15 10 52 | | DEC. . | { 11 20 47 | 11 9 29 |
| 1831. B. 21 10 41 | JAN. . | 13 18 21 | 14 4 26 | 1834. E. 21 4 8 | ○ | { 26 15 9 | 26 23 57 |
| | FEB. . | { 12 7 5 | 12 19 44 | | JAN. . | 10 9 31 | 10 1 20 |
| | ○ | { 27 1 27 | 26 19 15 | | FEB. . | 8 22 15 | 8 18 57 |
| | MAR. . | 13 19 49 | 14 8 19 | | MAR. . | 10 10 59 | 10 13 17 |
| | APRIL | 12 8 33 | 12 18 22 | | APRIL | 8 23 43 | 9 6 57 |
| | MAY . | 11 21 17 | 12 2 27 | | MAY . | 8 12 27 | 8 22 52 |
| | JUNE . | 10 10 1 | 10 9 23 | | JUNE . | { 7 1 11 | 7 12 20 |
| | JULY . | 9 22 45 | 9 16 25 | | ○ | { 21 19 33 | 21 10 43 |
| | AUG. . | { 8 11 29 | 8 0 27 | | JULY . | 6 13 55 | 6 23 22 |
| | ○ | { 23 5 51 | 23 12 25 | | AUG. . | 5 2 39 | 5 8 33 |
| | SEPT. . | 7 0 13 | 6 10 37 | | SEPT. . | 3 15 23 | 3 16 50 |
| | OCT. . | 6 12 57 | 5 23 40 | | OCT. . | 3 4 7 | 3 1 12 |
| | NOV. . | 5 1 41 | 4 15 47 | | NOV. . | 1 16 51 | { 1 10 25 |
| | DEC. . | 4 14 25 | 4 10 17 | | DEC. ○ | { 1 5 35 | { 30 21 2 |
| 1832. A.G. 20 16 30 | JAN. . | 3 3 9 | 3 5 50 | 1835. D. 21 9 57 | JAN. . | 29 7 3 | 28 23 11 |
| | FEB. . | 1 15 54 | 2 0 45 | | FEB. . | 27 19 47 | 27 14 35 |
| | MAR. . | { 2 4 38 | 2 17 32 | | MAR. . | 29 8 32 | 29 7 0 |
| | APRIL | { 31 17 22 | { 1 7 21 | | APRIL | 27 21 16 | 27 23 40 |
| | MAY . | 29 18 50 | 30 2 35 | | MAY . | 27 10 10 | 27 15 45 |
| | JUNE . | 28 7 34 | 28 9 34 | | ○ | { 11 4 22 | 11 1 7 |
| | JULY . | 27 20 13 | 27 16 13 | | JUNE . | { 25 22 44 | 26 6 27 |
| | AUG. . | 26 9 2 | 25 23 39 | | JULY . | 25 11 28 | 25 19 22 |
| | SEPT. . | 24 21 46 | 24 8 53 | | AUG. . | 24 0 12 | 24 6 39 |
| | OCT. . | 24 10 30 | 23 20 45 | | SEPT. . | 22 12 56 | 22 16 49 |
| | NOV. . | 22 23 14 | 22 11 36 | | OCT. . | 22 1 40 | 22 2 37 |
| | DEC. . | 22 11 53 | 22 5 8 | | NOV. . | 20 14 24 | 20 12 38 |
| | | | | | DEC. . | 20 3 8 | 19 23 15 |

JERUSALEM CIVIL. TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1836. C.R. March. d. h. m. 20 15 43 | | d. h. m. | d. h. m. | A.D. 1839. F. March. d. h. m. 21 9 12 | | d. h. m. | d. h. m. |
| | JAN. . | 18 15 58 | 18 10 35 | | JAN. . | 15 7 2 | 15 17 86 |
| | FEB. . | 17 4 87 | 16 22 39 | | FEB. . | 13 19 46 | 14 6 14 |
| | MAR. . | 17 17 21 | 17 11 36 | | MAR. . | 15 8 30 | 15 16 50 |
| | APRIL | 16 6 5 | 16 1 30 | | APRIL | 13 21 14 | 14 1 43 |
| | ○ | 1 0 27 | 1 10 36 | | MAY . | 13 9 58 | 13 9 30 |
| | MAY . | 15 18 49 | 15 16 19 | | JUNE . | 11 22 42 | 11 17 6 |
| | JUNE . | 14 7 33 | 14 7 41 | | JULY . | 11 11 26 | 11 1 33 |
| | JULY . | 13 20 17 | 13 28 2 | | AUG. . | 10 0 10 | 9 11 53 |
| | AUG. . | 12 9 1 | 12 18 43 | | SEPT. . | 8 12 54 | 8 0 51 |
| | SEPT. . | 10 21 45 | 11 3 23 | | OCT. . | 8 1 38 | 7 16 36 |
| | OCT. . | 10 10 29 | 10 15 57 | | NOV. . | 6 14 22 | 6 10 33 |
| | ○ | 25 4 51 | 24 15 30 | | DEC. . | 6 3 6 | 6 5 31 |
| | NOV. . | 8 23 13 | 9 3 43 | | | | |
| | DEC. . | 8 11 57 | 8 15 1 | | | | |
| 1837. A. 20 21 34 | JAN. . | 7 0 41 | 7 1 58 | 1840. K.D. 20 15 1 | JAN. . | 4 15 50 | 4 23 57 |
| | FEB. . | 5 13 25 | 5 12 41 | | FEB. . | 3 4 34 | 3 16 33 |
| | MAR. . | 7 2 9 | 6 23 16 | | ○ | 17 22 56 | 17 10 14 |
| | APRIL | 5 14 58 | 5 9 57 | | MAR. . | 3 17 18 | 4 6 29 |
| | ○ | 20 9 15 | 20 23 4 | | APRIL | 2 6 3 | 2 17 41 |
| | MAY . | 5 8 37 | 4 21 16 | | MAY . | 1 18 47 | 2 2 31 |
| | JUNE . | 3 16 21 | 3 9 47 | | ○ | 31 7 31 | 31 9 50 |
| | JULY . | 3 5 5 | 2 23 44 | | JUNE . | 29 20 15 | 29 16 35 |
| | ○ | 1 17 49 | 1 14 55 | | JULY . | 29 8 59 | 29 0 31 |
| | AUG. . | 81 6 38 | 81 6 49 | | ○ | 13 3 21 | 13 9 44 |
| | SEPT. . | 29 19 17 | 29 22 39 | | AUG. . | 27 21 43 | 27 8 55 |
| | ○ | 14 13 39 | 14 1 22 | | SEPT. . | 26 10 27 | 25 20 32 |
| | OCT. . | 29 8 1 | 29 13 50 | | OCT. . | 25 23 11 | 25 11 13 |
| | NOV. . | 27 20 45 | 28 3 57 | | NOV. . | 24 11 55 | 24 4 44 |
| | DEC. . | 27 9 29 | 27 16 52 | | DEC. . | 24 0 39 | 24 0 1 |
| 1838. O. 21 8 23 | JAN. . | 25 22 14 | 26 4 33 | 1841. O. 20 20 50 | JAN. . | 22 13 24 | 22 19 30 |
| | FEB. . | 24 10 58 | 24 15 0 | | ○ | 6 7 46 | 6 4 33 |
| | MAR. . | 25 28 42 | 26 0 23 | | FEB. . | 21 2 8 | 21 13 23 |
| | ○ | 9 18 4 | 10 4 12 | | MAR. . | 22 14 52 | 23 4 45 |
| | APRIL | 24 12 26 | 24 9 24 | | APRIL | 21 3 36 | 21 16 57 |
| | MAY . | 24 1 10 | 23 13 33 | | MAY . | 20 16 20 | 21 2 22 |
| | JUNE . | 22 13 54 | 22 4 47 | | JUNE . | 19 5 4 | 19 9 54 |
| | JULY . | 22 2 38 | 21 16 54 | | JULY . | 18 17 43 | 18 16 36 |
| | AUG. . | 20 15 22 | 20 7 12 | | ○ | 2 12 10 | 2 12 31 |
| | SEPT. . | 19 4 6 | 18 23 27 | | AUG. . | 17 6 32 | 16 23 33 |
| | ○ | 8 22 28 | 8 16 44 | | SEPT. . | 15 19 16 | 15 7 53 |
| | OCT. . | 18 16 50 | 18 16 51 | | OCT. . | 15 8 0 | 14 13 23 |
| | NOV. . | 17 5 31 | 17 10 19 | | NOV. . | 13 20 44 | 13 7 52 |
| | DEC. . | 16 13 13 | 17 2 49 | | DEC. . | 13 9 23 | 13 0 10 |

.JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1842. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1845. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 21 2 38 | JAN. . | { 11 22 12 | 11 18 37 | March. <i>d. h. m.</i> 20 20 5 | JAN. . | 8 13 22 | 8 9 17 |
| | ○ | { 26 16 34 | 26 20 14 | | FEB. . | 7 2 6 | 6 20 51 |
| | FEB. . | 10 10 56 | 10 13 53 | | MAR. . | 8 14 50 | 8 9 5 |
| | MAR. . | 11 23 40 | 12 8 23 | | APRIL | 7 3 34 | 6 22 10 |
| | APRIL | 10 12 24 | 11 0 43 | | MAY . | { 6 16 18 | 6 12 16 |
| | MAY . | 10 1 8 | 10 14 12 | | ○ | { 21 10 40 | 21 18 26 |
| | JUNE . | 8 13 52 | 9 0 50 | | JUNE . | 5 5 2 | 5 3 13 |
| | JULY . | { 8 2 36 | 8 9 20 | | JULY . | 4 17 46 | 4 18 36 |
| | ○ | { 22 20 58 | 22 13 19 | | AUG. . | 3 6 30 | 3 9 47 |
| | AUG. . | 6 15 20 | 6 16 42 | | SEPT. . | 1 19 14 | 2 0 13 |
| | SEPT. . | 5 4 4 | 5 0 3 | | ○ | { 1 7 58 | 1 13 36 |
| | OCT. . | 4 16 48 | 4 8 21 | | ○ | { 30 20 42 | 31 2 2 |
| | NOV. . | 3 5 32 | 2 18 24 | | ○ | { 14 15 4 | 14 3 15 |
| | DEC. . | { 2 18 16 | 2 6 41 | | NOV. . | { 29 9 26 | 29 13 46 |
| | | { ... | 31 21 20 | | DEC. . | 28 22 10 | 29 1 0 |
| 1843. A. | JAN. . | { 1 7 0 | ... | 1846. D. | JAN. . | 27 10 55 | 27 11 50 |
| 21 8 27 | FEB. . | { 30 19 45 | 30 14 3 | 21 1 54 | FEB. . | 25 23 39 | 25 22 18 |
| | MAR. . | { 1 8 29 | 1 7 57 | | MAR. . | 27 12 23 | 27 8 36 |
| | APRIL | { 30 21 13 | 31 1 54 | | APRIL | 26 1 7 | 25 19 16 |
| | MAY . | 29 9 57 | 29 18 39 | | MAY . | 25 13 51 | 25 6 51 |
| | JUNE . | 23 22 41 | 29 9 21 | | JUNE . | 24 2 35 | 23 19 53 |
| | JULY . | 27 11 25 | 27 21 36 | | JULY . | 23 15 19 | 23 10 27 |
| | AUG. . | 27 0 9 | 27 7 44 | | AUG. . | 22 4 3 | 22 2 10 |
| | SEPT. . | 25 12 53 | 25 16 32 | | SEPT. . | 20 16 47 | 20 18 20 |
| | OCT. . | 24 1 37 | 24 0 58 | | OCT. . | 20 5 31 | 20 10 13 |
| | NOV. . | 23 14 21 | 23 9 53 | | NOV. . | 18 18 15 | 19 1 11 |
| | ○ | { 6 21 27 | 7 2 34 | | DEC. . | 18 6 59 | 18 14 55 |
| | DEC. . | { 21 15 49 | 21 7 21 | 1847. C. | JAN. . | 16 19 44 | 17 3 18 |
| 1844. G.F. | JAN. . | 20 4 34 | 19 20 21 | 21 7 43 | FEB. . | 15 8 28 | 15 14 18 |
| 20 14 16 | FEB. . | 18 17 18 | 18 10 50 | | MAR. . | { 16 21 12 | 17 0 3 |
| | MAR. . | 19 6 2 | 19 2 30 | | ○ | { 31 15 34 | 31 23 27 |
| | APRIL | 17 18 46 | 17 18 53 | | APRIL | 15 9 56 | 15 8 58 |
| | MAY . | 17 7 30 | 17 11 10 | | MAY . | 14 22 40 | 14 17 39 |
| | ○ | { 1 1 52 | 1 1 20 | | JUNE . | 13 11 24 | 13 3 2 |
| | JUNE . | { 15 20 14 | 16 2 35 | | JULY . | 13 0 8 | 12 13 59 |
| | JULY . | 15 8 58 | 15 16 30 | | AUG. . | 11 12 52 | 11 3 9 |
| | AUG. . | 13 21 42 | 14 4 45 | | SEPT. . | { 10 1 36 | 9 18 34 |
| | SEPT. . | 12 10 26 | 12 15 33 | | ○ | { 24 19 58 | 24 16 33 |
| | OCT. . | 11 23 10 | 12 1 43 | | OCT. . | 9 14 20 | 9 11 41 |
| | NOV. . | { 10 11 54 | 10 11 53 | | NOV. . | 8 3 4 | 8 5 30 |
| | ○ | { 25 6 16 | 25 2 15 | | DEC. . | 7 15 48 | 7 22 51 |
| | DEC. . | 10 0 38 | 9 22 20 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1848. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1851. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.A. | JAN. . | 6 4 32 | 6 14 44 | E. | JAN. . | { 2 19 41 | 2 13 15 |
| March. | FEB. . | 4 17 16 | 5 4 31 | | ○ | { 17 14 3 | 17 19 15 |
| <i>d. h. m.</i> | MAR. . | { 5 6 0 | 5 16 3 | March. | FEB. . | 1 8 25 | 1 8 11 |
| 20 13 31 | ○ | { 20 0 22 | 19 23 17 | <i>d. h. m.</i> | MAR. . | 2 21 9 | 3 3 7 |
| | APRIL | 3 18 44 | 4 1 33 | 21 6 58 | APRIL | { 1 9 54 | 1 20 34 |
| | MAY . | 3 7 28 | 3 9 36 | | MAY . | { 30 22 38 | { 1 11 26 |
| | JUNE . | 1 20 12 | 1 17 0 | | JUNE . | 30 11 22 | { 30 23 26 |
| | JULY . | { 1 8 56 | 1 0 46 | | ○ | 29 0 6 | 29 8 55 |
| | AUG. . | { 30 21 40 | 30 9 58 | | JULY . | { 13 18 23 | 13 9 41 |
| | ○ | { 29 10 24 | 28 21 31 | | ○ | { 23 12 50 | 23 16 48 |
| | SEPT. . | { 13 4 46 | 13 8 27 | | AUG. . | 27 1 34 | 27 0 10 |
| | ○ | { 27 23 8 | 27 12 1 | | SEPT. . | 25 14 18 | 25 8 3 |
| | OCT. . | 27 11 52 | 27 5 6 | | OCT. . | 25 3 2 | 24 17 18 |
| | NOV. . | 26 0 36 | 25 23 55 | | NOV. . | 23 15 46 | 23 4 31 |
| | DEC. . | 25 13 20 | 25 18 57 | | DEC. . | 23 4 30 | 22 17 59 |
| 1849. | JAN. . | 24 2 5 | 24 12 43 | 1852. | ○ | { 6 22 52 | 7 8 37 |
| G. | FEB. . | 22 14 49 | 23 4 2 | D.C. | JAN. . | { 21 17 14 | 21 9 37 |
| | ○ | { 9 9 11 | 9 3 16 | 20 12 47 | FEB. . | 20 5 59 | 20 2 50 |
| 20 19 20 | MAR. . | { 24 3 33 | 24 16 29 | | MAR. . | 20 18 43 | 20 20 41 |
| | APRIL | 22 16 17 | 23 2 16 | | APRIL | 19 7 27 | 19 13 59 |
| | MAY . | 22 5 1 | 22 10 7 | | MAY . | 18 20 11 | 19 5 42 |
| | JUNE . | 20 17 45 | 20 16 46 | | JUNE . | 17 8 55 | 17 19 11 |
| | JULY . | 20 6 29 | 19 23 49 | | ○ | { 2 3 17 | 1 17 50 |
| | AUG. . | 18 19 13 | 18 7 51 | | JULY . | { 16 21 39 | 17 6 25 |
| | ○ | { 2 13 35 | 2 19 57 | | AUG. . | 15 10 23 | 15 15 57 |
| | SEPT. . | { 17 7 57 | 16 18 7 | | SEPT. . | 13 23 7 | 14 0 39 |
| | OCT. . | 16 20 41 | 16 7 19 | | OCT. . | 13 11 51 | 13 9 28 |
| | NOV. . | 15 9 25 | 14 23 36 | | NOV. . | 12 0 35 | 11 19 3 |
| | DEC. . | 14 22 9 | 14 18 18 | | DEC. . | { 11 13 19 | 11 5 51 |
| 1850. | JAN. . | 13 10 53 | 13 13 51 | 1853. | ○ | { 26 7 41 | 26 15 31 |
| F. | FEB. . | 11 23 37 | 12 8 44 | B. | JAN. . | 10 2 3 | 9 13 1 |
| 21 1 9 | MAR. . | 13 12 21 | 14 1 23 | 20 18 35 | FEB. . | 8 14 47 | 8 7 36 |
| | APRIL | 12 1 5 | 12 15 2 | | MAR. . | 10 3 31 | 9 22 27 |
| | MAY . | 11 13 49 | 12 1 42 | | APRIL | 8 16 15 | 8 14 15 |
| | JUNE . | 10 2 33 | 10 10 0 | | MAY . | 8 4 59 | 8 6 26 |
| | JULY . | 9 15 17 | 9 16 53 | | JUNE . | { 6 17 43 | 6 22 16 |
| | AUG. . | 8 4 1 | 7 23 44 | | ○ | { 21 12 5 | 21 8 31 |
| | SEPT. . | 6 16 45 | 6 7 21 | | JULY . | 6 6 27 | 6 13 8 |
| | OCT. . | 6 5 29 | 5 16 43 | | AUG. . | 4 19 11 | 5 2 16 |
| | NOV. . | 4 18 13 | 4 4 52 | | SEPT. . | 3 7 55 | 3 14 1 |
| | DEC. . | 4 6 57 | 3 19 47 | | OCT. . | 2 20 39 | 3 0 44 |
| | | | | | NOV. . | { 1 9 28 | 1 11 3 |
| | | | | | DEC. . | { 30 22 7 | 30 21 23 |
| | | | | | | 30 10 51 | 30 8 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1854. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1857. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 28 23 36 | 28 19 24 | D. | JAN. . | 25 14 46 | 26 2 11 |
| March. | FEB. . | 27 12 20 | 27 7 4 | March. | FEB. . | 24 3 30 | 24 14 48 |
| <i>d. h. m.</i> | MAR. . | 29 1 4 | 28 19 25 | <i>d. h. m.</i> | MAR. . | 25 16 14 | 26 1 10 |
| 21 0 24 | APRIL | 27 13 48 | 27 8 41 | 20 17 51 | APRIL | 21 4 58 | 21 9 41 |
| | ○ | { 12 8 10 | 12 18 15 | | MAY . | 23 17 42 | 23 17 8 |
| | MAY . | { 27 2 32 | 26 23 0 | | JUNE . | 22 6 26 | 22 0 23 |
| | JUNE . | 25 15 16 | 25 14 7 | | JULY . | 21 19 10 | 21 8 43 |
| | JULY . | 25 4 0 | 25 5 31 | | AUG. . | 20 7 54 | 19 19 0 |
| | AUG. . | 23 16 44 | 23 20 33 | | SEPT. . | 18 20 38 | 18 8 3 |
| | SEPT. . | 22 5 28 | 22 10 45 | | OCT. . | 18 9 22 | 18 0 0 |
| | OCT. . | 21 18 12 | 21 23 57 | | NOV. . | 16 22 6 | 16 18 14 |
| | ○ | { 5 12 34 | 4 23 26 | | DEC. . | 16 10 50 | 16 18 29 |
| | NOV. . | { 20 6 56 | 20 12 16 | | | | |
| | DEC. . | 19 19 40 | 19 23 53 | 1858. | JAN. . | 14 23 35 | 15 8 12 |
| 1855. | JAN. . | 18 8 25 | 18 10 57 | C. | FEB. . | { 13 12 19 | 14 0 49 |
| G. | FEB. . | 16 21 9 | 16 21 28 | | ○ | { 28 6 41 | 28 0 32 |
| 21 6 13 | MAR. . | 18 9 53 | 18 5 37 | 20 23 40 | MAR. . | 15 1 3 | 15 14 40 |
| | APRIL | 16 22 37 | 16 17 45 | | APRIL | 13 13 47 | 14 1 37 |
| | ○ | { 1 16 59 | 1 6 28 | | MAY . | 13 2 31 | 13 10 14 |
| | MAY . | { 16 11 21 | 16 4 31 | | JUNE . | 11 15 15 | 11 17 19 |
| | JUNE . | 15 0 5 | 14 16 34 | | JULY . | 11 8 59 | 11 0 0 |
| | JULY . | 14 12 49 | 14 6 16 | | AUG. . | { 9 16 48 | 9 7 20 |
| | AUG. . | 13 1 33 | 12 21 29 | | ○ | { 24 11 5 | 24 16 48 |
| | SEPT. . | 11 14 17 | 11 13 42 | | SEPT. . | 8 5 27 | 7 16 23 |
| | OCT. . | { 11 3 1 | 11 6 4 | | OCT. . | 7 18 11 | 7 4 11 |
| | ○ | { 25 21 23 | 25 9 36 | | NOV. . | 6 6 55 | 5 19 1 |
| | NOV. . | 9 15 45 | 9 21 51 | | DEC. . | 5 19 39 | 5 12 40 |
| | DEC. . | 9 4 29 | 9 12 29 | | | | |
| 1856. | JAN. . | 7 17 13 | 8 1 41 | 1859. | JAN. . | 4 8 23 | 4 8 1 |
| F.E. | FEB. . | 6 5 57 | 6 13 21 | B. | FEB. . | { 2 21 7 | 3 3 26 |
| 20 12 2 | MAR. . | 6 18 41 | 6 23 34 | | ○ | { 17 15 29 | 17 18 15 |
| | APRIL | { 5 7 25 | 5 8 38 | 21 5 23 | MAR. . | 4 9 51 | 4 21 17 |
| | ○ | { 20 1 47 | 20 11 17 | | APRIL | 2 22 35 | 3 12 26 |
| | MAY . | 4 20 9 | 4 17 7 | | MAY . | 2 11 19 | 3 0 28 |
| | JUNE . | 3 8 53 | 3 1 49 | | JUNE . | { 1 0 3 | 1 9 47 |
| | JULY . | 2 21 37 | { 2 11 44 | | ○ | { 30 12 47 | 30 17 17 |
| | AUG. . | { 1 10 21 | 31 23 39 | | JULY . | 30 1 31 | 30 0 4 |
| | SEPT. . | { 30 23 5 | 30 14 0 | | ○ | { 13 19 53 | 13 19 5 |
| | ○ | { 29 11 49 | 29 6 30 | | AUG. . | { 28 14 15 | 28 7 13 |
| | OCT. . | { 14 6 11 | 14 1 0 | | SEPT. . | 27 2 59 | 26 15 47 |
| | NOV. . | { 29 0 33 | 29 0 19 | | OCT. . | 26 15 43 | 26 2 34 |
| | DEC. . | 27 13 17 | 27 18 17 | | NOV. . | 25 4 27 | 24 16 6 |
| | | 27 2 1 | 27 11 12 | | DEC. . | 24 17 11 | 24 8 21 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1860. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1863. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A.G. | JAN. . | 28 5 56 | 28 2 38 | D. | JAN. . | 19 21 5 | 19 18 12 |
| March. | ○ | { 7 0 18 | 7 5 6 | March. | FEB. . | 18 9 50 | 18 5 27 |
| <i>d. h. m.</i> | FEB. . | { 21 18 40 | 21 21 37 | <i>d. h. m.</i> | MAR. . | 19 22 34 | 19 17 10 |
| 20 11 17 | MAR. . | 22 7 24 | 22 15 50 | 21 4 44 | APRIL | 18 11 18 | 18 5 41 |
| | APRIL | 20 20 8 | 21 7 58 | | MAY . | 18 0 2 | 17 19 10 |
| | MAY . | 20 8 52 | 20 21 21 | | ○ | { 1 18 24 | 2 1 57 |
| | JUNE . | 18 21 36 | 19 8 0 | | JUNE . | { 16 12 46 | 16 9 45 |
| | JULY . | 18 10 20 | 18 16 39 | | JULY . | 16 1 30 | 16 1 3 |
| | ○ | { 2 4 42 | 1 19 57 | | AUG. . | 14 14 14 | 14 16 27 |
| | AUG. . | { 16 23 4 | 17 0 17 | | SEPT. . | 13 2 58 | 13 7 21 |
| | SEPT. . | 15 11 48 | 15 7 57 | | OCT. . | 12 15 42 | 12 21 21 |
| | OCT. . | 15 0 32 | 14 16 36 | | NOV. . | { 11 4 26 | 11 10 23 |
| | NOV. . | 18 13 16 | 18 2 55 | | ○ | { 25 22 48 | 25 11 20 |
| | DEC. . | 18 2 0 | 12 15 16 | | DEC. . | 10 17 10 | 10 22 32 |
| 1861. | JAN. . | 11 14 44 | 11 5 46 | | | | |
| P. | FEB. . | 10 8 29 | 9 22 6 | 1864. | JAN. . | 9 5 54 | 9 9 58 |
| 20 17 6 | MAR. . | 11 16 13 | 11 15 32 | C.B. | FEB. . | 7 18 39 | 7 20 42 |
| | APRIL | 10 4 57 | 10 9 1 | 20 10 33 | MAR. . | 8 7 23 | 8 6 49 |
| | MAY . | 9 17 41 | 10 1 29 | | APRIL | 6 20 7 | 6 16 38 |
| | JUNE . | 8 6 25 | 8 16 7 | | MAY . | 6 8 51 | 6 2 43 |
| | JULY . | 7 19 9 | 8 4 31 | | JUNE . | 4 21 35 | 4 13 50 |
| | AUG. . | 6 7 53 | 6 14 53 | | JULY . | 4 10 19 | 4 2 31 |
| | SEPT. . | 4 20 37 | 5 0 11 | | AUG. . | 2 23 3 | 2 17 0 |
| | OCT. . | 4 9 21 | 4 9 5 | | SEPT. . | 1 11 47 | 1 8 54 |
| | NOV. . | 2 22 5 | 2 18 25 | | ○ | { 1 0 31 | 1 1 31 |
| | ○ | { 2 10 49 | 2 4 41 | | OCT. . | { 30 13 15 | 30 17 58 |
| | DEC. ○ | { 17 5 11 | 17 10 39 | | NOV. . | 29 1 59 | 29 9 30 |
| | | { 31 23 33 | 31 16 10 | | DEC. . | 28 14 43 | 28 23 38 |
| 1862. | JAN. . | 80 12 17 | 80 4 55 | | | | |
| R. | FEB. . | ... | { ... | 1865. | JAN. . | 27 3 27 | 27 12 17 |
| 20 22 55 | MAR. . | { 1 1 1 | { 28 13 54 | A. | FEB. . | 25 16 11 | 25 22 57 |
| | APRIL | { 30 13 45 | 30 9 59 | 20 16 21 | MAR. . | 27 4 55 | 27 8 22 |
| | MAY . | 29 2 29 | 29 1 49 | | ○ | { 10 23 17 | 11 6 35 |
| | ○ | { 12 9 35 | 12 8 48 | | APRIL | { 25 17 39 | 25 16 50 |
| | JUNE . | { 27 3 57 | 27 9 6 | | MAY . | 25 6 23 | 25 1 5 |
| | JULY . | 26 16 41 | 26 23 13 | | JUNE . | 23 19 7 | 23 10 7 |
| | AUG. . | 25 5 25 | 25 11 54 | | JULY . | 23 7 51 | 22 20 51 |
| | SEPT. . | 23 18 9 | 23 23 21 | | AUG. . | 21 20 35 | 21 9 57 |
| | OCT. . | 23 6 53 | 23 10 4 | | SEPT. . | 20 9 19 | 20 1 32 |
| | NOV. . | 21 19 37 | 21 20 34 | | ○ | { 5 3 41 | 5 0 41 |
| | ○ | { 6 13 59 | 6 10 6 | | OCT. . | { 19 22 3 | 19 19 0 |
| | DEC. . | { 21 8 21 | 21 7 15 | | NOV. . | 18 10 47 | 18 13 17 |
| | | | | | DEC. . | 17 23 31 | 18 7 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1866. G. March. <i>d. h. m.</i> 20 22 10 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1869. C. March. <i>d. h. m.</i> 20 15 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 12 16 | 16 23 13 | | JAN. . | { 13 3 26 | 12 21 23 |
| | FEB. . | 15 1 0 | 15 13 3 | | ○ | { 27 21 48 | 28 4 10 |
| | MAR. . | { 16 13 44 | 17 0 25 | | FEB. . | 11 16 10 | 11 16 2 |
| | ○ | { 31 8 6 | 31 6 39 | | MAR. . | 13 4 54 | 13 10 39 |
| | APRIL | 15 2 28 | 15 9 38 | | APRIL | 11 17 38 | 12 3 49 |
| | MAY . | 14 15 12 | 14 17 20 | | MAY . | 11 6 22 | 11 18 32 |
| | JUNE . | 13 3 56 | 13 0 28 | | JUNE . | 9 19 6 | 10 6 31 |
| | JULY . | 12 16 40 | 12 8 1 | | JULY . | { 9 7 50 | 9 16 8 |
| | AUG. . | 11 5 24 | 10 17 9 | | ○ | { 24 2 12 | 23 16 23 |
| | SEPT. . | { 9 18 8 | 9 4 47 | | AUG. . | 7 20 31 | 8 0 16 |
| | ○ | { 24 12 30 | 24 16 19 | | SEPT. . | 6 9 18 | 6 7 58 |
| | OCT. . | 9 6 52 | 8 19 22 | | OCT. . | 5 22 2 | 5 16 13 |
| | NOV. . | 7 19 36 | 7 12 44 | | NOV. . | 4 10 46 | 4 1 46 |
| | DEC. . | 7 8 20 | 7 7 47 | | DEC. . | 3 23 30 | 3 13 9 |
| 1867. F. 21 3 59 | JAN. . | 5 21 4 | 6 3 2 | 1870. B. 20 21 26 | JAN. . | { 2 12 14 | { 2 2 33 |
| | FEB. . | 4 9 48 | 4 20 52 | | ○ | { 17 6 36 | { 17 17 16 |
| | MAR. . | { 5 22 32 | 6 12 9 | | FEB. . | 1 0 58 | ... |
| | ○ | { 20 16 54 | 20 11 11 | | MAR. . | 2 13 42 | 2 10 36 |
| | APRIL | 4 11 16 | 5 0 27 | | APRIL | { 1 2 26 | 1 3 56 |
| | MAY . | 4 0 0 | 4 10 1 | | MAY . | { 30 15 10 | 30 20 53 |
| | JUNE . | 2 12 44 | 2 17 39 | | JUNE . | 30 3 54 | 30 12 25 |
| | JULY . | { 2 1 23 | 2 0 21 | | JUNE . | 28 16 38 | 29 1 58 |
| | ○ | { 31 14 12 | 31 7 13 | | ○ | { 13 11 0 | 13 0 57 |
| | AUG. . | 30 2 56 | 29 15 22 | | JULY . | { 28 5 22 | 28 13 28 |
| | ○ | { 13 21 18 | 14 2 55 | | AUG. . | 26 18 6 | 26 23 24 |
| | SEPT. . | { 28 15 40 | 28 1 46 | | SEPT. . | 25 6 50 | 25 8 36 |
| | OCT. . | 23 4 24 | 27 15 8 | | OCT. . | 24 19 34 | 24 17 51 |
| | NOV. . | 26 17 8 | 26 7 31 | | NOV. . | 23 8 18 | 23 3 47 |
| | DEC. . | 26 5 52 | 26 2 12 | | DEC. . | 22 21 2 | 22 14 42 |
| 1868. E.D. 20 9 48 | JAN. . | 24 18 37 | 24 21 46 | 1871. A. 21 3 14 | ○ | { 6 15 24 | 6 23 44 |
| | FEB. . | 23 7 21 | 23 16 33 | | JAN. . | { 21 9 47 | 21 2 45 |
| | MAR. . | 23 20 5 | 24 9 4 | | FEB. . | 19 22 31 | 19 15 55 |
| | APRIL | 22 8 49 | 22 22 33 | | MAR. . | 21 11 15 | 21 6 12 |
| | MAY . | 21 21 33 | 22 9 7 | | APRIL | 19 23 59 | 19 21 23 |
| | JUNE . | 20 10 17 | 20 17 23 | | MAY . | 19 12 43 | 19 13 9 |
| | JULY . | 19 23 1 | 20 0 23 | | JUNE . | 18 1 27 | 18 4 47 |
| | AUG. . | 18 11 45 | 18 7 21 | | ○ | { 2 19 49 | 2 15 56 |
| | SEPT. . | 17 0 29 | 16 15 13 | | JULY . | { 17 14 11 | 17 19 37 |
| | OCT. . | 16 13 13 | 16 0 45 | | AUG. . | 16 2 55 | 16 9 13 |
| | NOV. . | 15 1 57 | 14 13 7 | | SEPT. . | 14 15 39 | 14 21 30 |
| | DEC. . | 14 14 41 | 14 4 3 | | OCT. . | 14 4 23 | 14 8 43 |
| | | | | | NOV. . | 12 17 7 | 12 19 36 |
| | | | | | DEC. . | 12 5 51 | 12 6 21 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1872. G.F. March. d. h. m. 20 9 3 | | d. h. m. | d. h. m. | A.D. 1875. C. March. d. h. m. 21 2 30 | | d. h. m. | d. h. m. |
| | JAN. . | 10 18 35 | 10 17 11 | | JAN. . | 7 9 45 | 7 19 34 |
| | FEB. . | 9 7 20 | 9 4 10 | | FEB. . | 5 22 29 | 6 10 40 |
| | MAR. . | 9 20 4 | 9 15 23 | | MAR. . | 7 11 13 | 7 23 12 |
| | APRIL | 8 8 48 | 8 3 8 | | APRIL | 5 23 58 | 6 9 19 |
| | MAY . | { 7 21 32 | 7 15 50 | | MAY . | 5 12 42 | 5 17 30 |
| | ○ | { 22 15 54 | 23 1 46 | | JUNE . | 4 1 26 | 4 0 40 |
| | JUNE . | 6 10 16 | 6 5 40 | | JULY . | 3 14 10 | 3 7 47 |
| | JULY . | 5 23 0 | 5 20 31 | | AUG. . | { 2 2 54 | 1 15 57 |
| | AUG. . | 4 11 41 | 4 12 3 | | SEPT. . | { 31 15 38 | 31 2 15 |
| | SEPT. . | 3 0 28 | 3 3 23 | | OCT. . | 30 4 22 | 29 15 24 |
| | OCT. . | 2 13 12 | 2 18 13 | | NOV. . | 29 17 6 | 29 7 34 |
| | NOV. ○ | { 1 1 56 | 1 8 3 | | DEC. . | 28 5 50 | 28 2 2 |
| | DEC. . | { 15 20 18 | 15 7 33 | | | 27 18 34 | 27 21 30 |
| | | { 30 14 40 | 30 20 50 | | | | |
| | | 30 3 24 | 30 8 48 | | | | |
| 1873. E. 20 14 52 | JAN. . | 28 16 8 | 28 19 52 | 1876. B.A. 20 8 19 | JAN. . | 26 7 18 | 26 16 16 |
| | FEB. . | 27 4 52 | 27 6 8 | | FEB. . | 24 20 2 | 25 8 55 |
| | MAR. . | 28 17 36 | 28 15 49 | | ○ | { 10 14 24 | 10 8 41 |
| | APRIL | 27 6 20 | 27 1 25 | | MAR. . | { 25 8 46 | 25 22 38 |
| | ○ | { 12 0 42 | 12 13 42 | | APRIL | 23 21 30 | 24 9 24 |
| | MAY . | { 26 19 4 | 26 11 40 | | MAY . | 23 10 14 | 23 17 48 |
| | JUNE . | 25 7 48 | 24 23 19 | | JUNE . | 21 22 58 | 22 0 47 |
| | JULY . | 24 20 32 | 24 12 49 | | JULY . | 21 11 42 | 21 7 26 |
| | AUG. . | 23 9 16 | 23 4 7 | | AUG. . | 20 0 26 | 19 14 51 |
| | SEPT. . | 21 22 0 | 21 20 40 | | ○ | { 3 18 48 | 3 23 45 |
| | OCT. . | 21 10 44 | 21 13 35 | | SEPT. . | { 18 13 10 | 18 0 5 |
| | ○ | { 5 5 6 | 4 17 58 | | OCT. . | 18 1 54 | 17 12 0 |
| | NOV. . | { 19 23 28 | 20 5 56 | | NOV. . | 16 14 38 | 16 2 53 |
| | DEC. . | 19 12 12 | 19 21 2 | | DEC. . | 16 3 22 | 15 20 39 |
| 1874. D. 20 20 41 | JAN. . | 18 0 57 | 18 10 28 | 1877. G. 20 14 7 | JAN. . | 14 16 7 | 14 15 53 |
| | FEB. . | 16 13 41 | 16 22 5 | | FEB. . | { 13 4 51 | 13 11 16 |
| | MAR. . | 18 2 25 | 18 8 1 | | ○ | { 27 23 13 | 27 21 51 |
| | APRIL | 16 15 9 | 16 16 41 | | MAR. . | 14 17 35 | 15 4 53 |
| | ○ | { 1 9 31 | 1 13 15 | | APRIL | 13 6 19 | 13 19 57 |
| | MAY . | { 16 3 53 | 16 0 45 | | MAY . | 12 19 3 | 13 7 53 |
| | JUNE . | 14 16 37 | 14 9 4 | | JUNE . | 11 7 47 | 11 17 8 |
| | JULY . | 14 5 21 | 13 13 42 | | JULY . | 10 20 31 | 11 0 41 |
| | AUG. . | 12 18 5 | 12 6 32 | | AUG. . | { 9 9 15 | 9 7 33 |
| | SEPT. . | 11 6 49 | 10 20 54 | | ○ | { 24 8 37 | 24 1 44 |
| | OCT. . | { 10 19 33 | 10 13 44 | | SEPT. . | 7 21 59 | 7 15 2 |
| | ○ | { 25 13 55 | 25 9 24 | | OCT. . | 7 10 43 | 6 23 50 |
| | NOV. . | 9 8 17 | 9 7 57 | | NOV. . | 5 23 27 | 5 10 49 |
| | DEC. . | 8 21 1 | 9 2 21 | | DEC. . | 5 12 11 | 5 0 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1878. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1881. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 4 0 55 | 3 16 35 | B. | JAN. . | 30 4 49 | 30 3 5 |
| March. | FEB. . | { 2 13 40 | 2 10 36 | March. | FEB. . | 28 17 33 | 28 13 58 |
| <i>d. h. m.</i> | ○ | { 17 8 2 | 17 13 53 | <i>d. h. m.</i> | MAR. . | 30 6 17 | 30 1 7 |
| 20 19 56 | MAR. . | 4 2 24 | 4 5 14 | 20 13 23 | APRIL | 28 19 1 | 28 13 0 |
| | APRIL | 2 15 8 | 2 23 7 | | MAY . | 28 7 45 | 28 1 59 |
| | MAY . | { 2 3 52 | 2 15 2 | | ○ | { 12 2 7 | 12 9 23 |
| | JUNE . | { 31 16 36 | { 1 4 21 | | JUNE . | { 26 20 29 | 26 16 15 |
| | JULY . | 30 5 20 | { 30 15 8 | | JULY . | 26 9 13 | 26 7 30 |
| | ○ | { 13 12 26 | 13 2 41 | | AUG. . | 24 21 57 | 24 23 9 |
| | AUG. . | { 28 6 43 | 28 7 57 | | SEPT. . | 23 10 41 | 23 14 35 |
| | SEPT. . | 26 19 32 | 26 16 1 | | OCT. . | 22 23 25 | 23 5 11 |
| | OCT. . | 26 8 16 | 26 1 0 | | NOV. . | 21 12 9 | 21 13 47 |
| | NOV. . | 24 21 0 | 24 11 33 | | ○ | { 6 6 31 | 5 19 30 |
| | DEC. . | 24 9 44 | 23 23 56 | | DEC. . | { 21 0 53 | 21 7 21 |
| 1879. | JAN. . | 22 22 23 | 22 14 12 | 1882. | JAN. . | 19 13 38 | 19 13 54 |
| E. | FEB. . | 21 11 12 | 21 6 5 | A. | FEB. . | 18 2 22 | 18 5 38 |
| 21 1 45 | MAR. . | 22 23 56 | 22 22 58 | 20 19 12 | MAR. . | 19 15 6 | 19 15 12 |
| | APRIL | 21 12 40 | 21 16 2 | | APRIL | 18 3 50 | 18 0 30 |
| | MAY . | 21 1 24 | 21 8 12 | | MAY . | 17 16 34 | 17 10 5 |
| | JUNE . | 19 14 8 | 19 22 48 | | JUNE . | 16 5 18 | 15 20 45 |
| | JULY . | 19 2 52 | 19 11 24 | | JULY . | 15 18 2 | 15 9 10 |
| | AUG. . | 17 15 36 | 17 22 14 | | AUG. . | 14 6 46 | 13 23 35 |
| | SEPT. . | 16 4 20 | 16 7 56 | | SEPT. . | 12 19 30 | 12 15 44 |
| | OCT. . | 15 17 4 | 15 17 18 | | OCT. . | 12 8 14 | 12 8 49 |
| | NOV. . | 14 5 48 | 14 3 3 | | NOV. . | 10 20 58 | 11 1 50 |
| | DEC. . | { 13 18 32 | 13 13 34 | | DEC. . | 10 9 42 | 10 17 32 |
| | ○ | { 28 12 54 | 28 18 44 | | | | |
| 1880. | JAN. . | 12 7 16 | 12 1 0 | 1883. | JAN. . | 8 22 26 | 9 8 13 |
| D.C. | FEB. . | 10 20 1 | 10 13 27 | G. | FEB. . | 7 11 11 | 7 20 51 |
| 20 7 34 | MAR. . | 11 8 45 | 11 2 54 | 21 1 0 | MAR. . | 8 23 55 | 9 7 30 |
| | APRIL | 9 21 29 | 9 17 23 | | APRIL | { 7 12 39 | 7 16 34 |
| | MAY . | 9 10 13 | 9 8 39 | | ○ | { 22 7 1 | 22 13 37 |
| | JUNE . | { 7 22 57 | 8 0 17 | | MAY . | 7 1 23 | 7 0 37 |
| | ○ | { 22 17 19 | 22 16 17 | | JUNE . | 5 14 7 | 5 8 30 |
| | JULY . | 7 11 41 | 7 15 35 | | JULY . | 5 2 51 | 4 17 13 |
| | AUG. . | 6 0 25 | 6 5 59 | | AUG. . | 3 15 35 | 3 8 47 |
| | SEPT. . | 4 13 9 | 4 19 8 | | SEPT. . | 2 4 19 | 1 16 54 |
| | OCT. . | 4 1 53 | 4 7 9 | | ○ | { 1 17 3 | 1 8 40 |
| | NOV. . | 2 14 37 | 2 18 26 | | OCT. ○ | { 16 11 25 | 16 8 58 |
| | DEC. ○ | { 2 3 21 | 2 5 23 | | | { 31 5 47 | 31 2 30 |
| | | { 16 21 43 | 16 18 2 | | NOV. . | 29 18 31 | 29 21 10 |
| | | { 31 16 5 | 31 16 14 | | DEC. . | 29 7 15 | 29 15 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1884. F.E. March. d. h. m. 20 6 49 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1887. B. March. d. h. m. 21 0 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 19 59 | 28 7 38 | | JAN. . | 24 11 9 | 24 5 28 |
| | FEB. . | 26 8 43 | 26 21 27 | | ○ | { 8 5 31 | 8 12 57 |
| | MAR. . | 26 21 27 | 27 8 36 | | FEB. . | { 22 23 53 | 22 23 45 |
| | ○ | { 10 15 49 | 10 13 52 | | MAR. . | 24 12 37 | 24 18 1 |
| | APRIL | { 25 10 11 | 25 17 32 | | APRIL | 23 1 21 | 23 10 53 |
| | MAY . | 24 22 55 | 25 0 58 | | MAY . | 22 14 5 | 23 1 30 |
| | JUNE . | 23 11 39 | 23 7 52 | | JUNE . | 21 2 49 | 21 13 31 |
| | JULY . | 23 0 23 | 22 15 19 | | JULY . | 20 15 33 | 20 23 20 |
| | AUG. . | 21 13 7 | 21 0 26 | | ○ | { 4 9 55 | 3 23 10 |
| | SEPT. . | 20 1 51 | 19 12 7 | | AUG. . | { 19 4 17 | 19 7 46 |
| | ○ | { 4 20 13 | 5 0 15 | | SEPT. . | 17 17 1 | 17 15 51 |
| | OCT. . | { 19 14 35 | 19 2 54 | | OCT. . | 17 5 45 | 17 0 30 |
| | NOV. . | 18 3 19 | 17 20 27 | | NOV. . | 15 18 29 | 15 10 23 |
| | DEC. . | 17 16 3 | 17 15 42 | | DEC. . | 15 7 13 | 14 21 52 |
| 1885. D. 20 12 38 | JAN. . | 16 4 48 | 16 11 5 | 1888. A.G. 20 6 5 | JAN. . | { 13 19 57 | 13 11 8 |
| | FEB. . | 14 17 32 | 15 4 56 | | ○ | { 28 14 19 | 29 1 51 |
| | MAR. . | { 16 6 16 | 16 20 8 | | FEB. . | 12 8 41 | 12 2 2 |
| | ○ | { 31 0 38 | 30 18 59 | | MAR. . | 12 21 26 | 12 18 17 |
| | APRIL | 14 19 0 | 15 8 15 | | APRIL | 11 10 10 | 11 11 6 |
| | MAY . | 14 7 44 | 14 17 33 | | MAY . | 10 22 54 | 11 3 38 |
| | JUNE . | 12 20 28 | 13 1 9 | | JUNE . | 9 11 38 | 9 19 3 |
| | JULY . | 12 9 12 | 12 7 43 | | JULY . | { 9 0 22 | 9 8 44 |
| | AUG. . | 10 21 56 | 10 14 45 | | ○ | { 23 18 44 | 23 8 8 |
| | SEPT. . | { 9 10 40 | 8 23 1 | | AUG. . | 7 13 6 | 7 20 34 |
| | ○ | { 24 5 2 | 24 10 19 | | SEPT. . | 6 1 50 | 6 6 53 |
| | OCT. . | 8 23 24 | 8 9 36 | | OCT. . | 5 14 34 | 5 16 39 |
| | NOV. . | 7 12 8 | 6 23 7 | | NOV. . | 4 8 18 | 4 2 22 |
| | DEC. . | 7 0 52 | 6 15 31 | | DEC. . | 3 16 2 | 3 12 37 |
| 1886. C. 20 18 27 | JAN. . | 5 13 36 | 5 10 12 | 1889. F. 20 11 53 | JAN. ○ | { 2 4 46 | 1 23 33 |
| | FEB. . | 4 2 21 | 4 5 40 | | ○ | { 16 23 8 | 17 7 54 |
| | MAR. . | 5 15 5 | 6 0 16 | | FEB. . | ... | ... |
| | APRIL | 4 3 49 | 4 16 35 | | MAR. . | { 2 6 14 | 2 0 8 |
| | MAY . | 3 16 33 | 4 5 57 | | ○ | { 31 18 59 | 31 18 49 |
| | JUNE . | 2 5 17 | 2 16 27 | | APRIL | 30 7 43 | 30 4 26 |
| | JULY . | { 1 18 1 | 2 0 45 | | MAY . | 29 20 27 | 29 19 45 |
| | ○ | { 31 6 45 | 31 7 56 | | JUNE . | 28 9 11 | 28 11 14 |
| | AUG. . | 29 19 29 | 29 15 4 | | ○ | { 13 8 33 | 12 23 22 |
| | SEPT. . | 28 8 13 | 27 23 12 | | JULY . | { 27 21 53 | 28 2 14 |
| | OCT. . | 27 20 57 | 27 9 11 | | AUG. . | 26 10 39 | 26 16 14 |
| | NOV. . | 26 9 41 | 25 21 31 | | SEPT. . | 24 23 23 | 25 5 5 |
| | DEC. . | 25 22 25 | 25 12 24 | | OCT. . | 24 12 7 | 24 16 57 |
| | | | | | NOV. . | 23 0 51 | 23 4 17 |
| | | | | | DEC. . | 22 13 33 | 22 15 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1890. E. March. d. h. m. 20 17 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1893. A. March. d. h. m. 20 11 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 2 19 | 21 2 9 | | JAN. . | 17 17 29 | 18 3 54 |
| | FEB. . | 19 15 3 | 19 12 47 | | FEB. . | 16 6 13 | 16 19 3 |
| | MAR. . | 21 3 47 | 20 23 34 | | MAR. . | 17 18 57 | 18 7 27 |
| | APRIL | 19 16 31 | 19 10 44 | | APRIL | 16 7 41 | 16 17 17 |
| | MAY . | 19 5 15 | 18 22 51 | | MAY . | 15 20 25 | 16 1 14 |
| | ○ | { 2 23 37 | { 3 9 12 | | JUNE . | 14 9 9 | 14 8 10 |
| | JUNE . | { 17 17 59 | { 17 12 16 | | JULY . | 13 21 53 | 13 15 9 |
| | JULY . | 17 6 43 | 17 3 0 | | AUG. . | 12 10 37 | 11 23 16 |
| | AUG. . | 15 19 27 | 15 18 38 | | SEPT. . | 10 23 21 | 10 9 38 |
| | SEPT. . | 14 8 11 | 14 10 28 | | OCT. . | 10 12 5 | 9 22 55 |
| | OCT. . | 13 20 55 | 14 1 49 | | NOV. . | 9 0 49 | 8 15 14 |
| | NOV. . | { 12 9 39 | { 12 16 14 | | DEC. . | 8 13 33 | 8 9 53 |
| | ○ | { 27 4 1 | { 26 15 47 | | | | |
| | DEC. . | 11 22 23 | 12 5 33 | | | | |
| 1891. D. 20 23 31 | JAN. . | 10 11 7 | 10 17 42 | 1894. G. 20 16 58 | JAN. . | 7 2 17 | 7 5 28 |
| | FEB. . | 8 23 52 | 9 4 43 | | FEB. . | 5 15 2 | 6 0 18 |
| | MAR. . | 10 12 36 | 10 14 40 | | MAR. . | { 7 3 46 | { 7 16 52 |
| | APRIL | 9 1 20 | 8 23 54 | | ○ | { 21 22 8 | { 21 16 44 |
| | MAY . | { 8 14 4 | { 8 9 0 | | APRIL | 5 16 30 | 6 6 27 |
| | ○ | { 23 8 26 | { 23 20 50 | | MAY . | 5 5 14 | 5 17 3 |
| | JUNE . | 7 2 48 | 6 18 48 | | JUNE . | 3 17 58 | 4 1 19 |
| | JULY . | 6 15 32 | 6 6 6 | | JULY . | 3 6 42 | 3 8 14 |
| | AUG. . | 5 4 16 | 4 19 28 | | AUG. . | { 1 19 26 | { 1 14 56 |
| | SEPT. . | 3 17 0 | 3 10 54 | | ○ | { 31 8 10 | { 30 22 28 |
| | OCT. . | 3 5 44 | 3 3 48 | | SEPT. . | { 15 2 32 | { 15 6 55 |
| | NOV. . | { 1 18 28 | { 1 21 13 | | OCT. . | { 29 20 54 | { 29 7 55 |
| | ○ | { 16 12 50 | { 16 2 30 | | NOV. . | 29 9 38 | 28 19 59 |
| | DEC. . | { 1 7 12 | { 1 14 6 | | DEC. . | 27 22 22 | 27 11 3 |
| | | { 30 19 56 | { 31 5 35 | | | 27 11 6 | 27 4 44 |
| 1892. C.B. 20 5 20 | JAN. . | 29 8 41 | 29 19 11 | 1895. F. 20 22 46 | JAN. . | 25 23 50 | 25 23 53 |
| | FEB. . | 27 21 25 | 28 6 41 | | FEB. . | 24 12 31 | 24 19 0 |
| | MAR. . | 28 10 9 | 28 16 20 | | ○ | { 11 6 56 | { 11 6 20 |
| | APRIL | 26 22 53 | 27 0 37 | | MAR. . | { 26 1 18 | { 26 12 29 |
| | ○ | { 11 17 15 | { 12 1 4 | | APRIL | 24 14 2 | 25 3 18 |
| | MAY . | { 26 11 37 | { 26 8 17 | | MAY . | 24 2 46 | 24 15 8 |
| | JUNE . | 25 0 21 | 24 16 18 | | JUNE . | 22 15 30 | 23 0 26 |
| | JULY . | 24 13 5 | 24 1 45 | | JULY . | 22 4 14 | 22 8 6 |
| | AUG. . | 23 1 49 | 22 13 31 | | AUG. . | 20 16 58 | 20 15 14 |
| | SEPT. . | 21 14 33 | 21 4 3 | | ○ | { 4 11 20 | { 4 8 30 |
| | OCT. . | 21 3 17 | 20 21 5 | | SEPT. . | { 19 5 42 | { 18 22 55 |
| | ○ | { 4 21 39 | { 4 17 57 | | OCT. . | 18 18 26 | 18 8 2 |
| | NOV. . | { 19 16 1 | { 19 15 41 | | NOV. . | 17 7 10 | 16 19 15 |
| | DEC. . | 19 4 45 | 19 10 26 | | DEC. . | 16 19 54 | 16 8 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1896. E.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1899. A. March. <i>d. h. m.</i> 20 22 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 20 4 35 | JAN. . | 15 8 39 | 15 0 51 | | JAN. . | 11 23 48 | 12 1 13 |
| | FEB. . | { 13 21 23 | 13 18 30 | | FEB. . | 10 12 32 | 10 11 52 |
| | ○ | { 28 15 45 | 28 22 30 | | MAR. . | 12 1 16 | 11 22 21 |
| | MAR. . | 14 10 7 | 14 12 43 | | APRIL | 10 14 1 | 10 8 59 |
| | APRIL | 12 22 51 | 13 6 15 | | MAY . | 10 2 45 | 9 20 16 |
| | MAY . | 12 11 35 | 12 21 57 | | JUNE . | { 8 15 29 | 8 8 45 |
| | JUNE . | 11 0 19 | 11 11 16 | | ○ | { 23 9 51 | 23 16 47 |
| | JULY . | 10 13 3 | 10 22 12 | | JULY . | 8 4 13 | 7 22 44 |
| | AUG. . | { 9 1 47 | 9 7 21 | | AUG. . | 6 16 57 | 6 12 1 |
| | ○ | { 23 20 9 | 23 9 30 | | SEPT. . | 5 5 41 | 5 5 59 |
| | SEPT. . | 7 14 31 | 7 15 41 | | OCT. . | 4 18 25 | 4 21 55 |
| | OCT. . | 7 3 15 | 7 0 10 | | NOV. . | 3 7 9 | 3 13 9 |
| | NOV. . | 5 15 59 | 5 9 32 | | DEC. . | { 2 19 53 | 3 3 18 |
| | DEC. . | 5 4 43 | 4 20 17 | | ○ | { 17 14 15 | 17 3 48 |
| 1897. C. | JAN. . | 3 17 27 | 3 8 38 | 1900. G. | JAN. . | { 1 8 37 | 1 16 11 |
| 20 10 24 | FEB. . | 2 6 11 | 1 22 35 | | FEB. . | { 30 21 22 | 31 3 46 |
| | MAR. . | 3 18 56 | 3 13 58 | | ... | ... | ... |
| | APRIL | 2 7 40 | 2 6 18 | 21 3 51 | MAR. . | { 1 10 6 | 1 14 6 |
| | MAY . | { 1 20 24 | 1 22 52 | | ... | { 30 22 50 | 30 23 28 |
| | ... | { 31 9 8 | 31 14 50 | | APRIL | 29 11 34 | 29 8 17 |
| | JUNE . | 29 21 52 | 30 5 26 | | MAY . | 29 0 18 | 28 17 24 |
| | JULY . | 29 10 36 | 29 18 18 | | ○ | { 12 18 40 | 13 5 57 |
| | AUG. . | 27 23 20 | 28 5 35 | | JUNE . | { 27 18 2 | 27 3 41 |
| | SEPT. . | 26 12 4 | 26 15 48 | | JULY . | 27 1 46 | 26 15 53 |
| | OCT. . | 26 0 48 | 26 1 41 | | AUG. . | 25 14 30 | 25 6 20 |
| | NOV. . | 24 13 32 | 24 11 49 | | SEPT. . | 24 3 14 | 23 22 44 |
| | DEC. . | 24 2 16 | 23 22 31 | | OCT. . | 23 15 58 | 23 16 15 |
| | ○ | { 7 20 38 | 8 2 48 | | NOV. . | 22 4 42 | 22 9 47 |
| 1898. B. | JAN. . | { 22 15 0 | 22 9 51 | 1901. F. | JAN. . | 20 6 10 | 20 16 53 |
| 20 16 13 | FEB. . | 21 3 44 | 20 21 54 | | FEB. . | 18 18 54 | 19 5 29 |
| | MAR. . | 22 16 28 | 22 10 46 | 21 9 39 | MAR. . | 20 7 38 | 20 15 54 |
| | APRIL | 21 5 12 | 21 0 37 | | APRIL | 13 20 22 | 19 0 36 |
| | MAY . | 20 17 56 | 20 15 23 | | MAY . | 18 9 6 | 18 3 17 |
| | JUNE . | 19 6 40 | 19 6 44 | | JUNE . | 16 21 50 | 16 15 51 |
| | ○ | { 4 1 2 | 3 23 43 | | JULY . | 16 10 34 | 16 0 21 |
| | JULY . | { 18 19 24 | 18 22 3 | | AUG. . | 14 23 13 | 14 10 43 |
| | AUG. . | 17 8 8 | 17 12 46 | | SEPT. . | 13 12 2 | 12 23 53 |
| | SEPT. . | 15 20 52 | 16 2 27 | | OCT. . | { 13 0 46 | 12 15 57 |
| | OCT. . | 15 9 36 | 15 15 5 | | ○ | { 27 19 8 | 27 17 43 |
| | NOV. . | 13 22 20 | 14 2 55 | | NOV. . | 11 13 30 | 11 10 4 |
| | DEC. . | { 13 11 4 | 13 14 14 | | DEC. . | 11 2 14 | 11 5 5 |
| | ○ | { 28 5 26 | 28 1 59 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1902. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1905. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. March. <i>d. h. m.</i> 21 15 28 | JAN. . | 9 14 58 | 9 23 31 | A. March. <i>d. h. m.</i> 21 8 55 | JAN. . | 6 6 8 | 5 20 43 |
| | FEB. . | 8 3 43 | 8 15 58 | | FEB. . | { 4 18 53 | 4 13 33 |
| | MAR. . | 9 16 27 | 10 5 43 | | ○ | { 19 13 15 | 19 21 40 |
| | APRIL { | 8 5 11 | 8 16 40 | | MAR. . | 6 7 37 | 6 7 25 |
| | ○ | { 22 23 33 | 22 20 59 | | APRIL | 4 20 21 | 5 1 14 |
| | MAY . | 7 17 55 | 8 1 19 | | MAY . | 4 9 5 | 4 17 50 |
| | JUNE . | 6 6 39 | 6 8 32 | | JUNE . | 2 21 49 | 3 8 21 |
| | JULY . | 5 19 23 | 5 15 16 | | JULY . | { 2 10 33 | 2 20 28 |
| | AUG. . | 4 8 7 | 3 22 41 | | ○ | { 31 23 17 | { 1 6 33 |
| | SEPT. . | 2 20 51 | 2 7 50 | | AUG. . | { 15 17 39 | { 15 6 3 |
| | | { 2 9 35 | 1 19 40 | | SEPT. . | { 30 12 1 | { 30 15 22 |
| | OCT. ○ | { 17 3 57 | 17 8 21 | | OCT. . | 29 0 45 | 28 23 53 |
| | | { 31 22 19 | 31 10 35 | | NOV. . | 28 13 29 | 28 8 56 |
| | NOV. . | 30 11 3 | 30 4 17 | | DEC. . | 27 2 13 | 26 19 6 |
| | DEC. . | 29 23 47 | 29 23 40 | | | 26 14 57 | 26 6 39 |
| 1903. | JAN. . | 28 12 32 | 28 19 6 | 1906. | JAN. . | 25 3 41 | 24 19 42 |
| D. 21 21 17 | FEB. . | 27 1 16 | 27 12 54 | G. 21 14 44 | ○ | { 8 22 3 | 9 10 20 |
| | MAR. . | 28 14 0 | 29 3 57 | | FEB. . | { 23 16 25 | 23 10 10 |
| | ○ | { 12 8 22 | 12 2 40 | | MAR. . | 25 5 9 | 25 1 48 |
| | APRIL { | 27 2 44 | 27 15 54 | | APRIL | 23 17 53 | 23 18 5 |
| | MAY . | 26 15 28 | 27 1 10 | | MAY . | 23 6 37 | 23 10 16 |
| | JUNE . | 25 4 12 | 25 8 36 | | JUNE . | 21 19 21 | 22 1 38 |
| | JULY . | 24 16 56 | 24 15 17 | | JULY . | 21 8 5 | 21 15 27 |
| | AUG. . | 23 5 40 | 22 22 21 | | ○ | { 5 2 27 | 4 15 21 |
| | SEPT. . | 21 18 24 | 21 6 49 | | AUG. . | { 19 20 49 | 20 3 41 |
| | ○ | { 6 12 46 | 6 17 50 | | SEPT. . | 18 9 33 | 18 14 36 |
| | OCT. . | { 21 7 8 | 20 17 36 | | OCT. . | 17 22 17 | 18 0 50 |
| | NOV. . | 19 19 52 | 19 7 14 | | NOV. . | 16 11 1 | 16 11 2 |
| | DEC. . | 19 8 36 | 18 23 41 | | DEC. . | 15 23 45 | 15 21 31 |
| 1904. | JAN. . | 17 21 20 | 17 18 13 | 1907. | JAN. . | { 14 12 29 | 14 8 32 |
| G.B. 21 3 6 | FEB. . | 16 10 4 | 16 13 27 | F. 21 20 32 | ○ | { 29 6 51 | 29 16 1 |
| | MAR. . | 16 22 48 | 17 7 47 | | FEB. . | 13 1 13 | 12 20 4 |
| | APRIL | 15 11 32 | 15 23 55 | | MAR. . | 14 13 58 | 14 8 16 |
| | MAY . | 15 0 16 | 15 13 11 | | APRIL | 13 2 42 | 12 21 19 |
| | JUNE . | 13 13 0 | 13 23 39 | | MAY . | 12 15 26 | 12 11 22 |
| | JULY . | 13 1 44 | 13 8 3 | | JUNE . | 11 4 10 | 11 2 17 |
| | AUG. . | 11 14 28 | 11 15 26 | | JULY . | { 10 16 54 | 10 17 40 |
| | SEPT. . | 10 3 12 | 9 22 53 | | ○ | { 25 11 16 | 25 6 47 |
| | OCT. . | 9 15 56 | 9 7 21 | | AUG. . | 9 5 38 | 9 8 51 |
| | NOV. . | 8 4 40 | 7 17 35 | | SEPT. . | 7 18 22 | 7 23 18 |
| | DEC. . | 7 17 24 | 7 6 1 | | OCT. . | 7 7 6 | 7 12 45 |
| | | | | | NOV. . | 5 19 50 | 6 1 14 |
| | | | | | DEC. . | 5 8 34 | 5 13 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1908. E.D. March. d. h. m. 21 2 21 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1911. A. March. d. h. m. 21 19 48 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 3 21 18 | 4 0 15 | | JAN. . | 30 1 12 | 30 12 9 |
| | FEB. . | 2 10 3 | 2 11 2 | | FEB. . | 28 13 56 | ... |
| | MAR. . | 2 22 47 | 2 21 26 | | MAR. . | 30 2 41 | { 1 3 17 80 15 32 |
| | APRIL | 1 11 31 | { 1 7 39 80 18 15 | | APRIL | 28 15 25 | 29 1 10 |
| | MAY . | { 1 0 15 30 12 59 | 30 5 49 | | MAY . | 28 4 9 | 28 8 51 |
| | JUNE . | 29 1 43 | 28 18 54 | | JUNE . | 26 16 53 | 26 15 37 |
| | JULY . | 28 14 27 | 28 9 32 | | JULY . | 26 5 37 | 25 22 32 |
| | AUG. . | 27 3 11 | 27 1 19 | | AUG. . | 24 18 21 | 24 6 43 |
| | SEPT. . | 25 15 55 | 25 17 35 | | SEPT. . | 23 7 5 | 22 17 10 |
| | OCT. . | 25 4 39 | 25 9 31 | | OCT. . | 22 19 49 | 22 6 37 |
| | NOV. . | 23 17 23 | 24 0 32 | | NOV. . | 21 8 33 | 20 23 5 |
| | DEC. . | 23 6 7 | 23 14 15 | | DEC. . | 20 21 17 | 20 17 51 |
| 1909. C. 21 8 10 | JAN. . | 21 18 51 | 22 2 33 | 1912. G.F. 21 1 37 | JAN. . | 19 10 1 | 19 13 23 |
| | FEB. . | 20 7 35 | 20 13 26 | | FEB. . | 17 22 45 | 18 8 13 |
| | MAR. . | 21 20 19 | 21 23 4 | | MAR. . | 18 11 29 | 19 0 40 |
| | APRIL | 20 9 3 | 20 7 51 | | ○ | { 2 5 51 17 0 13 | 2 0 40 17 14 6 |
| | MAY . | 19 21 47 | 19 16 28 | | MAY . | 16 12 57 | 17 0 34 |
| | ○ | { 8 16 9 18 10 31 | 4 8 49 18 1 51 | | JUNE . | 15 1 41 | 15 8 44 |
| | JUNE . | 17 23 15 | 17 12 54 | | JULY . | 14 14 25 | 14 15 39 |
| | AUG. . | 16 11 59 | 16 2 12 | | AUG. . | 13 3 9 | 12 22 29 |
| | SEPT. . | 15 0 43 | 14 17 46 | | SEPT. . | { 11 15 53 26 10 15 | 11 6 14 26 14 10 |
| | OCT. . | 14 18 27 | 14 11 3 | | ○ | 11 4 37 | 10 15 53 |
| | NOV. . | { 13 2 11 27 20 33 | 13 4 57 27 11 9 | | OCT. . | 9 17 21 | 9 4 8 |
| | ○ | { 27 20 33 12 14 55 | 27 11 9 12 22 19 | | NOV. . | 9 6 5 | 8 19 15 |
| | DEC. . | 12 14 55 | 12 22 19 | | DEC. . | | |
| 1910. B. 21 18 59 | JAN. . | 11 3 39 | 11 14 8 | 1913. E. 21 7 25 | JAN. . | 7 18 49 | 7 12 49 |
| | FEB. . | 9 16 24 | 10 3 47 | | FEB. . | 6 7 34 | 6 7 46 |
| | MAR. . | 11 5 8 | 11 15 8 | | MAR. . | { 7 20 18 22 14 40 | 8 2 36 22 14 43 |
| | APRIL | 9 17 52 | 10 0 29 | | ○ | 6 9 2 | 6 19 50 |
| | MAY . | { 9 6 36 24 0 58 | 9 8 25 24 7 46 | | APRIL | 5 21 46 | 6 10 31 |
| | ○ | { 24 0 58 7 19 20 | 24 7 46 7 15 45 | | MAY . | 4 10 30 | 4 22 18 |
| | JUNE . | 7 19 20 | 7 15 45 | | JUNE . | 3 28 14 | 4 7 40 |
| | JULY . | 7 8 4 | 6 23 31 | | AUG. . | 2 11 58 | { 2 15 32 31 22 58 |
| | AUG. . | 5 20 48 | 5 8 50 | | ○ | { 1 0 42 15 19 4 | 31 22 58 15 15 22 |
| | SEPT. . | 4 9 32 | 3 20 37 | | SEPT. ○ | { 30 13 26 30 2 10 | 30 7 0 29 16 25 |
| | OCT. . | 3 22 16 | 3 11 16 | | OCT. . | 28 14 54 | 28 3 47 |
| | NOV. . | { 2 11 0 17 5 22 | 2 4 31 17 2 36 | | NOV. . | 28 3 38 | 27 17 24 |
| | ○ | { 17 5 22 1 23 44 | 17 2 36 1 23 29 | | DEC. . | | |
| | DEC. . | { 1 23 44 31 12 28 | 1 23 29 31 18 32 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-------------------------|---------|---------------------------------|---------------------------------|-------------------------|---------|---------------------------------|---------------------------------|
| A.D. 1914. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1917. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | 26 16 23 | 26 9 7 | March. | JAN. . | { 8 13 10 | 8 10 1 |
| <i>d. h. m.</i> | FEB. . | 25 5 7 | 25 2 19 | <i>d. h. m.</i> | FEB. . | { 23 7 33 | 23 10 11 |
| 21 13 14 | O | { 11 23 29 | 12 7 3 | 21 6 41 | MAR. . | 21 20 17 | 21 20 37 |
| | MAR. . | { 26 17 51 | 26 20 3 | | MAR. . | 23 9 1 | 23 6 39 |
| | APRIL | 25 6 35 | 25 13 13 | | APRIL | 21 21 45 | 21 16 43 |
| | MAY . | 24 19 19 | 25 4 46 | | MAY . | 21 10 29 | 21 3 27 |
| | JUNE . | 23 8 3 | 23 18 7 | | JUNE . | 19 23 13 | 19 15 32 |
| | JULY . | 22 20 47 | 23 5 16 | | O | { 4 17 35 | 5 0 6 |
| | AUG. . | 21 9 31 | 21 14 48 | | JULY . | { 19 11 57 | 19 5 17 |
| | O | { 5 3 53 | 4 16 23 | | AUG. . | 18 0 41 | 17 20 37 |
| | SEPT. . | { 19 22 15 | 19 23 34 | | SEPT. . | 16 13 25 | 16 12 55 |
| | OCT. . | 19 10 59 | 19 8 29 | | OCT. . | 16 2 9 | 16 5 23 |
| | NOV. . | 17 23 43 | 17 18 13 | | NOV. . | 14 14 53 | 14 21 13 |
| | DEC. . | 17 12 27 | 17 5 6 | | DEC. . | { 14 3 37 | 14 11 51 |
| | | | | | O | { 28 21 59 | 28 12 9 |
| 1915. C. | JAN. . | 16 1 11 | 15 17 21 | 1918. | JAN. . | 12 16 21 | 13 1 0 |
| 21 19 3 | FEB. . | 14 13 55 | 14 6 56 | F. | FEB. . | 11 5 5 | 11 12 33 |
| | MAR. . | 16 2 39 | 15 21 45 | 21 12 30 | MAR. . | 12 17 49 | 12 22 39 |
| | APRIL | 14 15 23 | 14 13 30 | | APRIL | 11 6 33 | 11 7 34 |
| | MAY . | 14 4 7 | 14 5 36 | | MAY . | 10 19 17 | 10 15 57 |
| | JUNE . | 12 16 51 | 12 21 22 | | JUNE . | { 9 8 1 | 9 0 34 |
| | JULY . | 12 5 35 | 12 12 2 | | O | { 21 2 23 | 21 12 57 |
| | AUG. . | 10 18 19 | 11 1 14 | | JULY . | 8 20 45 | 8 10 36 |
| | SEPT. . | 9 7 3 | 9 13 0 | | AUG. . | 7 9 29 | 6 22 39 |
| | OCT. . | 8 19 47 | 8 23 47 | | SEPT. . | 5 22 13 | 5 13 10 |
| | NOV. . | 7 8 31 | 7 10 10 | | OCT. . | 5 10 57 | 5 5 50 |
| | DEC. . | 6 21 15 | 6 20 33 | | NOV. . | 3 23 41 | 3 23 46 |
| | | | | | DEC. . | 3 12 25 | 3 17 49 |
| 1916. B.A. | JAN. . | { 5 9 59 | 5 7 27 | 1919. | JAN. . | { 2 1 9 | 2 10 40 |
| 21 0 52 | O | { 20 4 22 | 20 10 52 | E. | FEB. . | { 31 13 54 | { 1 1 32 |
| | FEB. . | 3 22 44 | 3 18 39 | 21 18 18 | MAR. . | { 2 2 38 | 2 13 59 |
| | MAR. . | 4 11 28 | 4 6 16 | | APRIL | { 31 15 22 | { 1 0 9 |
| | APRIL | 3 0 12 | 2 18 33 | | MAY . | 30 4 6 | 30 8 32 |
| | MAY . | 2 12 56 | { 2 7 47 | | JUNE . | 29 16 50 | 29 15 52 |
| | JUNE . | { 1 1 40 | { 31 22 5 | | JULY . | 28 5 34 | 27 23 10 |
| | O | { 15 8 46 | 15 7 9 | | AUG. . | 27 18 18 | 27 7 31 |
| | JULY . | { 30 3 8 | 30 4 36 | | SEPT. . | 26 7 2 | 25 17 57 |
| | AUG. . | 28 15 52 | 28 19 39 | | OCT. . | 21 19 46 | 24 7 18 |
| | SEPT. . | 27 4 36 | 27 9 53 | | O | { 8 2 52 | 8 1 56 |
| | OCT. . | 26 17 20 | 26 23 8 | | NOV. . | { 22 21 14 | 22 17 48 |
| | NOV. . | 25 6 4 | 25 11 30 | | DEC. . | 22 9 58 | 22 18 5 |
| | DEC. . | 24 18 48 | 24 23 9 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1920. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1923. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D.C. | JAN. . | 20 22 42 | 21 7 40 | G. | JAN. . | 17 13 52 | 17 5 12 |
| March. | FEB. . | 19 11 26 | 20 0 10 | March. | FEB. . | 16 2 36 | 15 21 32 |
| <i>d. h. m.</i> | MAR. . | 20 0 10 | 20 13 48 | <i>d. h. m.</i> | ○ { | 2 20 58 | 3 6 14 |
| 21 0 7 | APRIL | 18 12 54 | 19 0 34 | 21 17 34 | MAR. . | { 17 15 20 | 17 14 55 |
| | ○ { | 3 7 16 | 3 4 0 | | APRIL | 16 4 4 | 16 8 18 |
| | MAY . | { 18 1 38 | 18 8 59 | | MAY . | 15 16 48 | 16 0 38 |
| | JUNE . | 16 14 22 | 16 16 1 | | JUNE . | 14 5 32 | 14 15 6 |
| | JULY . | 16 3 6 | 15 22 41 | | JULY . | 13 18 16 | 14 3 24 |
| | AUG. . | 14 15 50 | 14 6 7 | | AUG. . | { 12 7 0 | 12 13 49 |
| | SEPT. . | 13 4 34 | 12 15 23 | | ○ { | 27 1 22 | 26 13 1 |
| | OCT. . | { 12 17 18 | 12 3 20 | | SEPT. . | 10 19 44 | 10 23 4 |
| | ○ { | 27 11 40 | 27 16 32 | | OCT. . | 10 8 28 | 10 8 3 |
| | Nov. . | 11 6 2 | 10 13 25 | | Nov. . | 8 21 12 | 8 17 29 |
| | DEC. . | 10 18 46 | 10 12 12 | | DEC. . | 8 9 56 | 8 3 54 |
| 1921. | JAN. . | 9 7 30 | 9 7 37 | 1924. | JAN. . | 6 22 40 | 6 15 27 |
| R. | FEB. . | 7 20 14 | 8 2 58 | F.E. | FEB. . | { 5 11 24 | 5 4 14 |
| 21 5 56 | MAR. . | 9 8 59 | 9 20 40 | 20 23 23 | ○ { | 20 5 46 | 20 18 41 |
| | APRIL | { 7 21 43 | 8 11 35 | | MAR. . | 6 0 9 | 5 18 12 |
| | ○ { | 22 16 5 | 22 10 15 | | APRIL | 4 12 53 | 4 9 14 |
| | MAY . | 7 10 27 | 7 23 24 | | MAY . | 4 1 37 | 4 1 0 |
| | JUNE . | 5 23 11 | 6 8 34 | | JUNE . | 2 14 21 | 2 16 52 |
| | JULY . | 5 11 55 | 5 15 59 | | JULY . | { 2 3 5 | 2 8 9 |
| | AUG. . | 4 0 39 | 3 22 47 | | ○ { | 31 15 49 | 31 22 13 |
| | SEPT. . | 2 13 23 | 2 6 3 | | AUG. . | { 15 10 11 | 14 22 42 |
| | ○ { | 2 2 7 | 1 14 45 | | SEPT. . | { 30 4 38 | 30 10 54 |
| | OCT. ○ | { 16 20 29 | 17 1 26 | | OCT. . | 28 17 17 | 28 22 22 |
| | ○ { | 31 14 51 | 31 1 44 | | NOV. . | 28 6 1 | 28 9 10 |
| | Nov. . | 30 3 35 | 29 15 28 | | DEC. . | 26 18 45 | 26 19 46 |
| | DEC. . | 29 16 19 | 29 7 52 | | | 26 7 29 | 26 6 30 |
| 1922. | JAN. . | 28 5 4 | 28 2 12 | 1925. | JAN. . | 24 20 14 | 24 17 27 |
| A. | FEB. . | 26 17 43 | 26 21 7 | D. | ○ { | 8 14 36 | 9 0 3 |
| 21 11 45 | MAR. . | 28 6 32 | 28 15 10 | 21 5 11 | FEB. . | { 23 8 58 | 23 4 39 |
| | APRIL | 26 19 16 | 27 7 7 | | MAR. . | 24 21 42 | 24 16 18 |
| | MAY . | 23 8 0 | 26 20 18 | | APRIL | 23 10 26 | 23 4 44 |
| | JUNE . | 24 20 44 | 25 6 50 | | MAY . | 22 23 10 | 22 18 14 |
| | JULY . | 24 9 28 | 24 15 24 | | JUNE . | 21 11 54 | 21 8 50 |
| | AUG. . | 22 22 12 | 22 23 4 | | JULY . | 21 0 38 | 21 0 8 |
| | SEPT. . | 21 10 56 | 21 6 51 | | ○ { | 4 19 0 | 4 14 17 |
| | OCT. . | 20 23 40 | 20 15 39 | | AUG. . | { 19 13 22 | 19 15 34 |
| | Nov. . | 19 12 24 | 19 2 6 | | SEPT. . | 18 2 6 | 18 6 30 |
| | DEC. . | 19 1 8 | 18 14 37 | | OCT. . | 17 14 50 | 17 20 33 |
| | | | | | Nov. . | 16 3 34 | 16 9 33 |
| | | | | | DEC. . | 15 16 13 | 15 21 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1926. C. March. d. h. m. 21 11 0 | | d. h. m. | d. h. m. | A.D. 1929. F. March. d. h. m. 21 4 27 | | d. h. m. | d. h. m. |
| | JAN. . | 14 5 2 | 14 9 12 | | JAN. . | 10 20 12 | 11 2 36 |
| | FEB. . | 12 17 46 | 12 19 51 | | FEB. . | 9 8 56 | 9 20 19 |
| | MAR. . | 14 6 30 | 14 5 53 | | MAR. . | 10 21 40 | 11 11 24 |
| | APRIL | 12 19 14 | 12 15 36 | | APRIL | 9 10 24 | 9 23 28 |
| | MAY . | 12 7 58 | 12 1 39 | | MAY . | 8 23 8 | 9 8 52 |
| | JUNE . | 10 20 42 | 10 12 44 | | JUNE . | 7 11 52 | 7 16 23 |
| | JULY . | 10 9 26 | 10 1 30 | | JULY . | 7 0 36 | 6 23 3 |
| | AUG. . | 8 22 10 | 8 16 5 | | AUG. . | 5 13 20 | 5 5 59 |
| | SEPT. . | 7 10 54 | 7 8 5 | | SEPT. . | 4 2 4 | 3 14 16 |
| | OCT. . | 6 23 38 | 7 0 48 | | OCT. . | 3 14 48 | 3 0 52 |
| | NOV. . | 5 12 22 | 5 17 19 | | NOV. . | 2 3 32 | 1 14 27 |
| | DEC. . | 5 1 6 | 5 8 52 | | DEC. . | 1 16 16 31 5 0 | 1 7 1 31 1 48 |
| 1927. B. 21 16 49 | JAN. . | 3 13 50 | 3 22 57 | 1903. E. 21 10 16 | JAN. . | 29 17 44 | 29 21 22 |
| | FEB. . | 2 2 35 | 2 11 22 | | FEB. . | 28 6 29 | 28 16 0 |
| | MAR. . | 3 15 19 | 3 22 5 | | MAR. . | 29 19 13 | 30 8 18 |
| | APRIL | 2 4 3 | 2 7 21 | | ○ | 13 13 35 | 13 8 29 |
| | MAY . | 1 16 47 31 5 31 | 1 15 41 30 23 54 | | APRIL | 28 7 57 | 28 21 36 |
| | ○ | 14 23 53 | 15 10 44 | | MAY . | 27 20 41 | 28 7 57 |
| | JUNE . | 29 18 15 | 29 8 57 | | JUNE . | 26 9 25 | 26 16 7 |
| | JULY . | 29 6 59 | 28 19 47 | | JULY . | 25 22 9 | 25 23 8 |
| | AUG. . | 27 19 43 | 27 9 3 | | AUG. . | 24 10 53 | 24 6 8 |
| | SEPT. . | 26 8 27 | 26 0 48 | | SEPT. . | 22 23 37 | 22 14 8 |
| | OCT. . | 25 21 11 | 25 18 47 | | ○ | 7 17 59 | 7 21 33 |
| | NOV. . | 24 9 55 | 24 12 48 | | OCT. . | 22 12 21 | 22 0 1 |
| | ○ | 9 4 17 | 8 19 54 | | NOV. . | 21 1 5 | 20 12 26 |
| | DEC. . | 23 22 39 | 24 6 34 | | DEC. . | 20 13 49 | 20 3 31 |
| 1928. A.G. 20 22 38 | JAN. . | 22 11 24 | 22 22 38 | 1931. D. 21 16 4 | JAN. . | 19 2 34 | 18 20 56 |
| | FEB. . | 21 0 8 | 21 12 18 | | FEB. . | 17 15 18 | 17 15 34 |
| | MAR. . | 21 12 52 | 21 23 29 | | MAR. . | 19 4 2 | 19 10 4 |
| | APRIL | 20 1 36 | 20 8 30 | | ○ | 2 22 24 | 2 22 56 |
| | MAY . | 19 14 20 | 19 16 6 | | APRIL | 17 16 46 | 18 3 3 |
| | ○ | 3 8 42 | 3 14 23 | | MAY . | 17 5 30 | 17 17 35 |
| | JUNE . | 18 3 4 | 17 23 11 | | JUNE . | 15 18 14 | 16 5 23 |
| | JULY . | 17 15 48 | 17 6 48 | | JULY . | 15 6 58 | 15 14 55 |
| | AUG. . | 16 4 32 | 15 16 3 | | AUG. . | 13 19 42 | 13 23 2 |
| | SEPT. . | 14 17 16 | 14 3 52 | | SEPT. . | 12 8 26 | 12 6 44 |
| | OCT. . | 14 6 0 | 13 18 41 | | ○ | 27 2 48 | 26 22 23 |
| | NOV. . | 12 18 44 | 12 12 13 | | OCT. . | 11 21 10 | 11 15 12 |
| | ○ | 27 13 6 | 27 11 24 | | NOV. . | 10 9 54 | 10 0 54 |
| | DEC. . | 12 7 28 | 12 7 23 | | DEC. . | 9 22 38 | 9 12 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 1932. C.B. March. <i>d. h. m.</i> 20 21 53 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1934. G. March. <i>d. h. m.</i> 21 9 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 11 22 | 8 1 57 | | JAN. . | 15 17 43 | 15 16 25 |
| | FEB. . | 7 0 6 | 6 17 17 | | ○ | 30 12 5 | 30 18 51 |
| | MAR. . | { 7 12 50 | 7 10 0 | | FEB. . | 14 6 27 | 14 3 21 |
| | ○ | { 22 7 12 | 22 15 24 | | MAR. . | 15 19 11 | 15 14 31 |
| | APRIL | 6 1 34 | 6 3 16 | | APRIL | 14 7 55 | 14 2 12 |
| | MAY . | 5 14 13 | 5 20 4 | | MAY . | 13 20 39 | 13 14 51 |
| | JUNE . | 4 3 2 | 4 11 29 | | JUNE . | 12 9 23 | 12 4 42 |
| | JULY . | 3 15 46 | 4 0 55 | | JULY . | { 11 22 7 | 11 19 37 |
| | AUG. . | { 2 4 30 | 2 12 21 | | ○ | { 26 16 29 | 26 14 37 |
| | ○ | { 31 17 14 | 31 22 18 | | AUG. . | 10 10 51 | 10 11 9 |
| | SEPT. . | { 15 11 36 | 14 23 34 | | SEPT. . | 8 23 35 | 9 2 36 |
| | OCT. . | { 30 5 53 | 30 7 33 | | OCT. . | 8 12 19 | 8 17 25 |
| | NOV. . | 29 18 42 | 29 17 4 | | | | |
| | DEC. . | 28 7 26 | 28 2 53 | | | | |
| | | 27 20 10 | 27 13 53 | | | | |
| 1933. A. 21 3 42 | JAN. . | 26 8 55 | 26 2 3 | | | | |
| | FEB. . | 24 21 39 | 24 15 13 | | | | |
| | MAR. . | 26 10 23 | 26 5 26 | | | | |
| | APRIL | 24 23 7 | 24 20 36 | | | | |
| | MAY . | 24 11 51 | 24 12 17 | | | | |
| | JUNE . | 23 0 35 | 23 3 51 | | | | |
| | JULY . | 22 13 19 | 22 13 39 | | | | |
| | AUG. . | 21 2 3 | 21 8 13 | | | | |
| | SEPT. . | 19 14 47 | 19 20 32 | | | | |
| | OCT. . | 19 3 31 | 19 7 54 | | | | |
| | NOV. . | 17 16 15 | 17 13 47 | | | | |
| | DEC. . | 17 4 59 | 17 5 34 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.O. 572. c. March. d. h. m. 27 14 0 | | d. h. m. | d. h. m. | B.C. 569. G.F. March. d. h. m. 27 7 26 | | d. h. m. | d. h. m. |
| | JAN. . | 7 10 2 | 7 4 3 | | JAN. . | 5 1 12 | 5 11 45 |
| | FEB. . | 5 22 46 | 5 16 54 | | ○ | 19 19 34 | 19 15 42 |
| | MAR. . | 7 11 30 | 7 6 43 | | FEB. . | 3 13 56 | 3 22 36 |
| | ○ | 22 5 52 | 22 16 34 | | MAR. . | 4 2 40 | 4 7 43 |
| | APRIL | 6 0 14 | 5 21 29 | | APRIL | 2 15 24 | 2 15 38 |
| | MAY . | 5 12 58 | 5 12 51 | | MAY . | 2 4 8 | 1 23 13 |
| | JUNE . | 4 1 42 | 4 4 14 | | ○ | 31 16 52 | 31 7 30 |
| | JULY . | 3 14 26 | 3 19 1 | | JUNE . | 30 5 36 | 29 17 32 |
| | AUG. . | 2 3 10 | 2 8 47 | | ○ | 14 23 58 | 15 5 53 |
| | ○ | 31 15 54 | 31 21 26 | | JULY . | 29 18 20 | 29 6 8 |
| | SEPT. . | 15 10 16 | 14 20 39 | | AUG. . | 28 7 4 | 27 21 31 |
| | OCT. . | 30 4 38 | 30 9 15 | | SEPT. . | 26 19 48 | 26 15 13 |
| | NOV. . | 29 17 22 | 29 20 32 | | OCT. . | 26 8 32 | 26 10 5 |
| | DEC. . | 28 6 6 | 28 7 32 | | NOV. . | 24 21 16 | 25 4 40 |
| | | 27 18 50 | 27 18 19 | | DEC. . | 24 10 0 | 24 21 34 |
| 571. B. 27 19 49 | JAN. . | 26 7 35 | 26 4 56 | 568. E. 27 13 15 | ○ | 8 4 23 | 7 21 31 |
| | FEB. . | 24 20 19 | 24 15 37 | | JAN. . | 22 22 45 | 23 11 54 |
| | MAR. . | 26 9 3 | 26 2 52 | | FEB. . | 21 11 29 | 21 23 27 |
| | APRIL | 24 21 47 | 24 15 15 | | MAR. . | 23 0 13 | 23 8 34 |
| | MAY . | 24 10 31 | 24 5 1 | | APRIL | 21 12 57 | 21 16 3 |
| | JUNE . | 22 23 15 | 22 20 4 | | MAY . | 21 1 41 | 20 22 50 |
| | JULY . | 22 11 59 | 22 11 54 | | JUNE . | 19 14 25 | 19 6 2 |
| | AUG. . | 21 0 43 | 21 3 45 | | ○ | 4 8 47 | 4 15 12 |
| | SEPT. . | 19 13 27 | 19 18 59 | | JULY . | 19 3 9 | 13 14 45 |
| | OCT. . | 19 2 11 | 19 9 13 | | AUG. . | 17 15 53 | 17 1 57 |
| | NOV. . | 17 14 55 | 17 22 16 | | SEPT. . | 16 4 37 | 15 16 12 |
| | DEC. . | 17 3 39 | 17 10 5 | | OCT. . | 15 17 21 | 15 9 23 |
| | | | | | NOV. . | 14 6 5 | 14 4 30 |
| | | | | | DEC. . | 13 18 49 | 14 0 2 |
| 570. A. 28 1 38 | JAN. . | 15 16 24 | 15 20 44 | 567. D. 27 19 4 | JAN. . | 12 7 34 | 12 18 19 |
| | ○ | 30 10 46 | 30 15 38 | | FEB. . | 10 20 18 | 11 10 1 |
| | FEB. . | 14 5 8 | 14 6 20 | | MAR. . | 12 9 2 | 12 22 33 |
| | MAR. . | 15 17 52 | 15 15 21 | | APRIL | 10 21 46 | 11 8 24 |
| | APRIL | 14 6 36 | 14 0 27 | | MAY . | 10 10 30 | 10 16 7 |
| | MAY . | 13 19 20 | 13 10 31 | | JUNE . | 8 23 14 | 8 22 53 |
| | JUNE . | 12 8 4 | 11 22 23 | | JULY . | 8 11 58 | 8 5 44 |
| | JULY . | 11 20 43 | 11 12 23 | | AUG. . | 7 0 42 | 6 13 47 |
| | ○ | 26 15 10 | 26 14 39 | | SEPT. . | 5 13 26 | 5 0 0 |
| | AUG. . | 10 9 32 | 10 4 23 | | OCT. . | 5 2 10 | 4 13 1 |
| | SEPT. . | 8 22 16 | 8 21 39 | | NOV. . | 3 14 54 | 3 4 55 |
| | OCT. . | 8 11 0 | 8 15 8 | | ○ | 18 9 16 | 18 14 39 |
| | NOV. . | 6 23 44 | 7 7 46 | | DEC. . | 3 3 38 | 2 23 10 |
| | DEC. . | 6 12 28 | 6 22 47 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|-----------------------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 566. C. | | | | B.C. 563. F. | | | |
| March. <i>d. h. m.</i> 28 0 53 | JAN. . | { 1 16 22 31 5 6 | 1 18 26 31 13 10 | March. <i>d. h. m.</i> 27 18 19 | JAN. . | 27 20 16 | 27 14 29 |
| | FEB. . | ... | ... | O | FEB. . | 26 9 0 | 26 3 31 |
| | MAR. . | { 1 17 50 31 6 34 | 2 5 52 31 19 45 | MAR. . | { 13 3 22 27 21 44 | 18 15 46 27 17 31 | |
| | APRIL | 29 19 18 | 30 6 45 | APRIL | 26 10 28 | 26 8 25 | |
| | O | { 14 13 40 | 14 5 25 | MAY . | 25 23 12 | 25 23 47 | |
| | MAY . | { 29 8 2 | 29 15 27 | JUNE . | 24 11 56 | 24 15 2 | |
| | JUNE . | 27 20 46 | 27 22 54 | JULY . | 24 0 40 | 24 5 33 | |
| | JULY . | 27 9 30 | 27 6 9 | AUG. . | 22 13 24 | 22 19 2 | |
| | AUG. . | 25 22 14 | 25 14 16 | O | { 6 7 46 | 5 18 0 | |
| | SEPT. . | 24 10 58 | 24 0 1 | SEPT. . | { 21 2 8 | 21 7 32 | |
| | OCT. . | 23 23 42 | 23 11 58 | OCT. . | 20 14 52 | 20 19 17 | |
| | O | { 7 18 4 | 8 2 28 | NOV. . | 19 3 36 | 19 6 34 | |
| | NOV. . | { 22 12 26 | 22 2 18 | DEC. . | 18 16 20 | 18 17 26 | |
| | DEC. . | 22 1 10 | 21 18 47 | | | | |
| 565. B.A. 27 6 42 | JAN. . | 20 13 55 | 20 12 40 | 562. E. 28 0 8 | JAN. . | 17 5 5 | 17 3 58 |
| | FEB. . | 19 2 39 | 19 6 42 | FEB. . | 15 17 49 | 15 14 20 | |
| | MAR. . | 19 15 23 | 19 23 43 | O | { 2 12 11 | 3 1 42 | |
| | APRIL | 18 4 7 | 18 14 44 | MAR. . | { 17 6 33 | 17 0 57 | |
| | O | { 2 22 29 | 2 15 41 | APRIL | 15 19 17 | 15 12 26 | |
| | MAY . | { 17 16 51 | 18 3 19 | MAY . | 15 8 1 | 15 1 17 | |
| | JUNE . | 16 5 35 | 16 13 40 | JUNE . | 13 20 45 | 13 15 40 | |
| | JULY . | 15 18 19 | 15 22 33 | JULY . | 13 9 29 | 13 7 15 | |
| | AUG. . | 14 7 3 | 14 6 56 | AUG. . | { 11 22 13 | 11 23 32 | |
| | SEPT. . | 12 19 47 | 12 15 43 | O | { 26 16 35 | 26 10 26 | |
| | OCT. . | { 12 8 31 | 12 1 32 | SEPT. . | 10 10 57 | 10 15 16 | |
| | O | { 27 2 53 | 27 7 16 | OCT. . | 9 23 41 | 10 6 20 | |
| | NOV. . | 10 21 15 | 10 12 46 | NOV. . | 8 12 25 | 8 20 14 | |
| | DEC. . | 10 9 59 | 10 1 35 | DEC. . | 8 1 9 | 8 8 46 | |
| 564. G. 27 12 31 | JAN. . | 8 22 44 | 8 15 55 | 561. D.C. 27 5 57 | JAN. . | 6 13 54 | 6 20 0 |
| | FEB. . | 7 11 28 | 7 7 80 | FEB. . | { 5 2 38 | 5 5 53 | |
| | MAR. . | 9 0 12 | 8 23 51 | O | { 19 21 0 | 20 4 19 | |
| | APRIL | 7 12 56 | 7 16 15 | MAR. . | 5 15 22 | 5 14 55 | |
| | MAY . | 7 1 40 | 7 7 50 | APRIL | 4 4 6 | 3 23 38 | |
| | JUNE . | 5 14 24 | 5 21 58 | MAY . | 3 16 50 | 3 8 54 | |
| | JULY . | 5 3 8 | 5 10 24 | JUNE . | 2 5 34 | 1 19 37 | |
| | AUG. . | 3 15 52 | 3 21 23 | JULY . | { 1 18 18 | 1 8 29 | |
| | SEPT. . | 2 4 36 | 2 7 34 | O | { 31 7 2 | 30 23 36 | |
| | OCT. . | { 1 17 20 | 1 17 35 | SEPT. . | { 15 1 24 | 14 22 33 | |
| | NOV. . | 29 18 48 | 29 14 50 | AUG. . | 29 19 46 | 29 16 30 | |
| | DEC. . | 29 7 32 | 29 2 19 | SEPT. . | 28 8 30 | 28 10 15 | |
| | | | | OCT. . | 27 21 14 | 28 3 41 | |
| | | | | NOV. . | 26 9 58 | 26 19 47 | |
| | | | | DEC. . | 25 22 42 | 26 9 51 | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 560. B. March. d. h. m. 27 11 46 | | d. h. m. | d. h. m. | B.C. 557. F.E. March. d. h. m. 27 5 12 | | d. h. m. | d. h. m. |
| | JAN. . | 24 11 26 | 24 21 41 | | JAN. . | 22 2 35 | 22 7 48 |
| | FEB. . | 23 0 10 | 23 7 29 | | FEB. . | 20 15 20 | 21 1 32 |
| | MAR. . | 24 12 54 | 24 15 43 | | MAR. . | 21 4 4 | 21 16 49 |
| | APRIL | 23 1 38 | 22 23 11 | | APRIL | 19 16 48 | 20 5 11 |
| | MAY . | 22 14 22 | 22 6 51 | | MAY . | 19 5 32 | 19 14 56 |
| | JUNE . | 21 3 6 | 20 15 49 | | ○ | { 2 23 54 | 2 15 8 |
| | JULY . | 20 15 50 | 20 3 2 | | JUNE . | { 17 18 16 | 17 22 58 |
| | AUG. . | 19 4 34 | 18 17 6 | | JULY . | 17 7 0 | 17 6 18 |
| | SEPT. . | 17 17 18 | 17 9 52 | | AUG. . | 15 19 44 | 15 14 3 |
| | OCT. . | 17 6 2 | 17 4 29 | | SEPT. . | 14 8 28 | 13 23 3 |
| | NOV. . | 15 18 46 | 15 23 33 | | OCT. . | 13 21 12 | 13 9 57 |
| | DEC. . | { 15 7 30 | 15 17 31 | | NOV. . | 12 9 56 | 11 23 7 |
| | ○ | { 30 1 52 | 29 19 8 | | DEC. . | 11 22 40 | 11 14 29 |
| 559. A. 27 17 35 | JAN. . | 13 20 15 | 14 9 14 | 556. D. 27 11 1 | JAN. . | 10 11 25 | 10 7 35 |
| | FEB. . | 12 8 59 | 12 22 4 | | FEB. . | 9 0 9 | 9 1 23 |
| | MAR. . | 13 21 43 | 14 8 13 | | MAR. . | 10 12 53 | 10 18 57 |
| | APRIL | 12 10 27 | 12 16 18 | | APRIL | { 9 1 37 | 9 10 56 |
| | MAY . | 11 23 11 | 11 23 13 | | ○ | { 23 19 59 | 23 19 15 |
| | JUNE . | { 10 11 55 | 10 6 1 | | MAY . | 8 14 21 | 9 0 44 |
| | ○ | { 25 6 17 | 25 11 50 | | JUNE . | 7 3 5 | 7 12 14 |
| | JULY . | 10 0 39 | 9 13 50 | | JULY . | 6 15 49 | 6 21 54 |
| | AUG. . | 8 13 23 | 7 23 45 | | AUG. . | 5 4 33 | 5 6 39 |
| | SEPT. . | 7 2 7 | 6 12 31 | | SEPT. . | 3 17 17 | 3 15 20 |
| | OCT. . | 6 14 51 | 6 4 22 | | OCT. . | { 3 6 1 | 3 0 46 |
| | NOV. . | 5 3 35 | 4 22 45 | | ○ | { 18 0 23 | 18 2 1 |
| | DEC. . | { 4 16 19 | 4 18 19 | | NOV. . | 1 18 45 | { 1 11 22 |
| | ○ | { 19 10 41 | 19 9 3 | | DEC. . | { 1 7 29 | { 30 23 21 |
| | | | | | | { 30 20 13 | 30 12 47 |
| 558. G. 27 23 24 | JAN. . | 3 5 3 | 3 13 25 | 555. C. 27 16 50 | JAN. . | 29 8 57 | 29 3 31 |
| | FEB. . | 1 17 47 | 2 6 27 | | FEB. . | 27 21 41 | 27 19 17 |
| | MAR. . | 3 6 31 | 3 20 32 | | MAR. . | 29 10 25 | 29 11 30 |
| | APRIL | 1 19 15 | 2 7 35 | | ○ | { 13 4 47 | 13 7 48 |
| | MAY . | { 1 7 59 | 1 16 10 | | APRIL | { 27 23 9 | 28 3 27 |
| | ○ | { 30 20 43 | 30 23 15 | | MAY . | 27 11 53 | 27 18 23 |
| | JUNE . | { 14 15 5 | 14 13 7 | | JUNE . | 26 0 37 | 26 7 48 |
| | JULY . | { 29 9 27 | 29 5 57 | | JULY . | 25 13 21 | 25 19 40 |
| | AUG. . | 27 10 55 | 26 22 31 | | AUG. . | 24 2 5 | 24 6 23 |
| | SEPT. . | 25 23 39 | 25 10 11 | | SEPT. . | 22 14 49 | 22 16 45 |
| | OCT. . | 25 12 23 | 25 0 43 | | ○ | { 7 9 11 | 7 1 21 |
| | NOV. . | 24 1 7 | 23 17 53 | | OCT. . | { 22 3 33 | 22 3 4 |
| | ○ | { 8 19 29 | 9 0 48 | | NOV. . | 20 16 17 | 20 13 47 |
| | DEC. . | { 23 18 51 | 23 12 44 | | DEC. . | 20 5 1 | 20 0 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 554. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 551. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. <i>d. h. m.</i> 27 22 39 | JAN. . | 18 17 46 | 18 12 33 | E. March. <i>d. h. m.</i> 27 16 5 | JAN. . | { 15 8 55 | 15 20 18 |
| | FEB. . | 17 6 30 | 17 0 51 | ○ | ○ | { 30 3 17 | 29 23 28 |
| | MAR. . | 18 19 14 | 18 14 2 | | FEB. . | 13 21 40 | 14 6 58 |
| | ○ | { 2 13 36 | 3 0 16 | | MAR. . | 15 10 24 | 15 15 44 |
| | APRIL | { 17 7 58 | 17 4 15 | | APRIL | 13 23 8 | 13 23 19 |
| | MAY . | 16 20 42 | 16 19 18 | | MAY . | 13 11 52 | 13 6 36 |
| | JUNE . | 15 9 26 | 15 10 43 | | JUNE . | 12 0 36 | 11 14 42 |
| | JULY . | 14 22 10 | 15 1 48 | | JULY . | { 11 13 20 | 11 0 39 |
| | AUG. . | 13 10 54 | 13 16 5 | ○ | ○ | { 26 7 42 | 26 13 20 |
| | SEPT. . | { 11 23 33 | 12 5 21 | | AUG. . | 10 2 4 | 9 13 18 |
| | ○ | { 26 18 0 | 26 4 35 | | SEPT. . | 8 14 43 | 8 4 52 |
| | OCT. . | 11 12 22 | 11 17 44 | | OCT. . | 8 3 32 | 7 22 51 |
| | NOV. . | 10 1 6 | 10 5 25 | | NOV. . | 6 16 16 | 6 18 2 |
| | DEC. . | 9 13 50 | 9 16 30 | | DEC. . | 6 5 0 | 6 12 51 |
| 553. A.G. 27 4 28 | JAN. . | 8 2 35 | 8 3 8 | 550. D. 27 21 54 | JAN. . | { 4 17 45 | 5 5 50 |
| | FEB. . | 6 15 19 | 6 13 21 | ○ | ○ | { 19 12 7 | 19 5 52 |
| | MAR. . | 7 4 3 | 6 23 30 | | FEB. . | 3 6 29 | 3 20 5 |
| | APRIL | 5 16 47 | 5 10 12 | | MAR. . | 4 19 13 | 5 7 26 |
| | MAY . | 5 5 31 | 4 22 5 | | APRIL | 3 7 57 | 3 16 20 |
| | JUNE . | 3 18 15 | 3 11 34 | | MAY . | 2 20 41 | 2 23 36 |
| | JULY . | 3 6 59 | 3 2 37 | | JUNE . | { 1 9 25 | 1 6 15 |
| | AUG. . | { 1 19 43 | 1 18 43 | | ○ | { 30 22 9 | 30 13 26 |
| | SEPT. . | { 31 8 27 | 31 11 3 | | JULY . | { 15 16 31 | 15 22 6 |
| | OCT. . | 29 21 11 | 30 2 55 | | AUG. . | { 30 10 53 | 29 22 14 |
| | NOV. . | 29 9 55 | 29 17 40 | | SEPT. . | 28 23 37 | 28 9 34 |
| | DEC. . | 27 22 39 | 28 7 3 | | OCT. . | 27 12 21 | 26 23 59 |
| | | 27 11 23 | 27 18 56 | | NOV. . | 27 1 5 | 26 17 16 |
| | | | | | DEC. . | 25 13 49 | 25 12 29 |
| 552. F. 27 10 17 | JAN. . | 26 0 7 | 26 5 21 | 549. C.B. 27 3 43 | JAN. . | 23 15 17 | 24 2 10 |
| | ○ | { 9 18 29 | 9 23 5 | | FEB. . | 22 4 1 | 22 17 44 |
| | FEB. . | { 24 12 51 | 24 14 35 | | MAR. . | 22 16 45 | 23 6 11 |
| | MAR. . | 26 1 35 | 25 23 8 | | APRIL | 21 5 29 | 21 15 51 |
| | APRIL | 24 14 19 | 24 7 48 | | MAY . | 20 18 13 | 20 23 32 |
| | MAY . | 24 3 3 | 23 17 30 | | JUNE . | 19 6 57 | 19 6 19 |
| | JUNE . | 22 15 47 | 22 5 9 | | JULY . | 18 19 41 | 18 13 20 |
| | JULY . | 22 4 31 | 21 19 10 | | AUG. . | 17 8 25 | 16 21 33 |
| | ○ | { 5 22 53 | 5 22 27 | | SEPT. . | 15 21 9 | 15 8 4 |
| | AUG. . | { 20 17 15 | 20 11 23 | | OCT. . | 15 9 53 | 14 21 12 |
| | SEPT. . | 19 5 59 | 19 5 4 | | NOV. . | { 13 22 37 | 13 13 7 |
| | OCT. . | 18 18 43 | 18 23 1 | ○ | ○ | { 23 16 59 | 23 23 33 |
| | NOV. . | 17 7 27 | 17 16 6 | | DEC. . | 13 11 21 | 13 7 12 |
| | DEC. . | 16 20 11 | 17 7 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 548. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 545. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 12 0 5 | 12 2 13 | E.D. March. | JAN. . | 9 15 16 | 9 10 59 |
| <i>d. h. m.</i> | FEB. . | 10 12 50 | 10 20 38 | <i>d. h. m.</i> | FEB. . | 8 4 0 | 7 22 40 |
| 27 9 32 | MAR. . | 12 1 34 | 12 13 8 | 27 2 58 | MAR. . | { 8 16 44 | 8 11 4 |
| | APRIL | 10 14 18 | 11 2 55 | | ○ | { 23 11 6 | 23 23 30 |
| | MAY . | { 10 3 2 | 10 13 55 | | APRIL | 7 5 28 | 7 0 30 |
| | ○ | { 24 21 24 | 24 12 14 | | MAY . | 6 18 12 | 6 14 59 |
| | JUNE . | 8 15 46 | 8 22 45 | | JUNE . | 5 6 56 | 5 6 14 |
| | JULY . | 8 4 30 | 8 6 25 | | JULY . | 4 19 40 | 4 21 38 |
| | AUG. . | 6 17 14 | 6 14 1 | | AUG. . | 3 8 24 | 3 12 36 |
| | SEPT. . | 5 5 58 | 4 22 28 | | SEPT. . | { 1 21 8 | 2 2 41 |
| | OCT. . | 4 18 42 | 4 8 29 | | ○ | { 16 15 30 | 16 1 42 |
| | NOV. . | { 3 7 26 | 2 20 33 | | OCT. . | { 1 9 52 | 1 15 46 |
| | ○ | { 18 1 48 | 18 10 59 | | NOV. . | 29 11 20 | 29 15 30 |
| | DEC. . | 2 20 10 | 2 10 47 | | DEC. . | 29 0 4 | 29 2 19 |
| | | | | | | | |
| 547. | JAN. . | { 1 8 55 | 1 2 57 | 544. | JAN. . | 27 12 48 | 27 12 32 |
| G. | FEB. . | { 30 21 39 | 30 20 19 | C. | FEB. . | 26 1 32 | 25 22 25 |
| | | ... | ... | | ○ | { 12 19 54 | 13 9 5 |
| 27 15 21 | MAR. . | { 1 10 23 | 1 13 54 | 27 8 47 | MAR. . | { 27 14 16 | 27 8 29 |
| | APRIL | { 30 23 7 | 31 6 36 | | APRIL | 26 3 0 | 25 19 26 |
| | ○ | { 14 6 13 | 13 22 58 | | MAY . | 25 15 44 | 25 7 56 |
| | MAY . | { 29 0 35 | 29 10 12 | | JUNE . | 24 4 23 | 23 22 12 |
| | JUNE . | 27 13 19 | 27 20 51 | | JULY . | 23 17 12 | 23 13 55 |
| | JULY . | 27 2 3 | 27 6 9 | | AUG. . | 22 5 56 | 22 6 27 |
| | AUG. . | 25 14 47 | 25 14 59 | | ○ | { 6 0 18 | 5 14 17 |
| | SEPT. . | 24 3 31 | 24 0 11 | | SEPT. . | { 20 18 40 | 20 22 56 |
| | OCT. . | 23 16 15 | 23 10 17 | | OCT. . | 20 7 24 | 20 14 34 |
| | ○ | { 7 10 37 | 7 15 17 | | NOV. . | 18 20 8 | 19 4 53 |
| | NOV. . | { 22 4 59 | 21 21 36 | | DEC. . | 18 8 52 | 18 17 34 |
| | DEC. . | 21 17 43 | 21 10 12 | | | | |
| | | | | | | | |
| 546. | JAN. . | 20 6 27 | 20 0 4 | 543. | JAN. . | 16 21 37 | 17 4 39 |
| F. | FEB. . | 18 19 11 | 18 15 4 | B. | FEB. . | 15 10 21 | 15 14 17 |
| 27 21 10 | MAR. . | 20 7 55 | 20 6 51 | 27 14 36 | ○ | { 2 4 43 | 2 11 31 |
| | APRIL | 18 20 39 | 18 22 52 | | MAR. . | { 16 23 5 | 16 22 52 |
| | MAY . | 18 9 23 | 18 14 21 | | APRIL | 15 11 49 | 15 7 9 |
| | JUNE . | 16 22 7 | 17 4 39 | | MAY . | 15 0 33 | 14 16 1 |
| | JULY . | 16 10 51 | 16 17 28 | | JUNE . | 13 13 17 | 13 2 30 |
| | AUG. . | 14 23 35 | 15 5 0 | | JULY . | 13 2 1 | 12 15 16 |
| | SEPT. . | 13 12 19 | 13 15 44 | | AUG. . | { 11 14 45 | 11 6 31 |
| | OCT. . | 13 1 3 | 13 2 13 | | ○ | { 26 9 7 | 26 6 37 |
| | NOV. . | 11 13 47 | 11 12 50 | | SEPT. . | 10 3 29 | 9 23 45 |
| | DEC. . | 11 2 31 | 10 23 44 | | OCT. . | 9 16 13 | 9 17 58 |
| | | | | | NOV. . | 8 4 57 | 8 11 50 |
| | | | | | DEC. . | 7 17 41 | 8 4 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 542. A. March. d. h. m. 27 20 25 | | d. h. m. | d. h. m. | B.C. 539. D. March. d. h. m. 27 13 51 | | d. h. m. | d. h. m. |
| | JAN. . | 6 6 26 | 6 18 25 | | JAN. . | 2 21 36 | 2 20 38 |
| | FEB. . | 4 19 10 | 5 6 6 | | FEB. . | 1 10 20 | 1 15 22 |
| | MAR. . | 6 7 54 | 6 15 37 | | MAR. . | 2 23 4 | 3 8 50 |
| | APRIL | 4 20 38 | 4 23 30 | | APRIL | 1 11 48 | 1 23 55 |
| | MAY . | 4 9 22 | 4 6 40 | | MAY . | { 1 0 32 | 1 12 16 |
| | JUNE . | 2 22 6 | 2 14 7 | | | { 30 13 16 | 30 22 8 |
| | JULY . | { 2 10 50 | 1 22 59 | | ○ | { 14 7 33 | 13 21 52 |
| | | { 31 23 34 | 31 10 14 | | JUNE . | { 29 2 0 | 29 6 23 |
| | AUG. . | 30 12 18 | 30 0 25 | | JULY . | 28 14 44 | 28 14 3 |
| | SEPT. . | 29 1 2 | 28 17 25 | | AUG. . | 27 3 28 | 26 22 9 |
| | OCT. . | 28 13 46 | 28 12 19 | | SEPT. . | 25 16 12 | 25 7 23 |
| | NOV. . | 27 2 30 | 27 7 37 | | OCT. . | 25 4 56 | 24 18 34 |
| | DEC. . | 26 15 14 | 27 1 42 | | NOV. . | 23 17 40 | 23 7 42 |
| | ○ | { 10 9 36 | 10 3 41 | | DEC. . | 23 6 24 | 22 22 48 |
| 541. G.F. 27 2 14 | JAN. . | { 25 3 58 | 25 17 23 | 538. C. 27 19 40 | JAN. . | 21 19 8 | 21 15 25 |
| | FEB. . | 23 16 42 | 24 6 5 | | FEB. . | 20 7 52 | 20 8 47 |
| | MAR. . | 24 5 26 | 24 16 1 | | MAR. . | 21 20 36 | 22 1 52 |
| | APRIL | 22 18 10 | 22 23 53 | | APRIL | 20 9 20 | 20 17 40 |
| | MAY . | 22 6 54 | 22 6 38 | | ○ | { 5 3 42 | 4 22 37 |
| | JUNE . | 20 19 38 | 20 13 26 | | MAY . | { 19 22 4 | 20 7 31 |
| | ○ | { 5 14 0 | 5 18 33 | | JUNE . | 18 10 48 | 18 19 14 |
| | JULY . | { 20 8 22 | 19 21 20 | | JULY . | 17 23 32 | 18 5 18 |
| | AUG. . | 18 21 6 | 18 7 22 | | AUG. . | 16 12 16 | 16 14 30 |
| | SEPT. . | 17 9 50 | 16 20 17 | | SEPT. . | 15 1 0 | 14 23 40 |
| | OCT. . | 16 22 34 | 16 12 16 | | OCT. . | { 14 18 44 | 14 9 27 |
| | NOV. . | 15 11 18 | 15 6 44 | | ○ | { 29 8 6 | 29 9 52 |
| | DEC. . | { 15 0 2 | 15 2 16 | | NOV. . | 18 2 28 | 12 20 13 |
| | ○ | { 29 18 24 | 29 17 55 | | DEC. . | 12 15 12 | 12 8 7 |
| 540. E. 27 8 3 | JAN. . | 13 12 47 | 13 21 16 | 537. B.A. 27 1 29 | JAN. . | 11 3 57 | 10 21 11 |
| | FEB. . | 12 1 31 | 12 14 10 | | FEB. . | 9 16 41 | 9 11 21 |
| | MAR. . | 13 14 15 | 14 4 6 | | MAR. . | 10 5 25 | 10 2 30 |
| | APRIL | 12 2 59 | 12 15 2 | | APRIL | { 8 18 9 | 8 18 15 |
| | MAY . | 11 15 43 | 11 23 33 | | ○ | { 23 12 31 | 23 15 25 |
| | JUNE . | { 10 4 27 | 10 6 42 | | MAY . | { 8 6 53 | 8 9 59 |
| | ○ | { 24 22 49 | 24 19 38 | | JUNE . | 6 19 37 | 7 0 57 |
| | JULY . | 9 17 11 | 9 13 33 | | JULY . | 6 8 21 | 6 14 41 |
| | AUG. . | 8 5 55 | 7 21 12 | | AUG. . | 4 21 5 | 5 3 5 |
| | SEPT. . | 6 18 39 | 6 6 35 | | SEPT. . | 8 9 49 | 8 14 26 |
| | OCT. . | 6 7 23 | 5 18 25 | | OCT. . | { 2 22 33 | 8 1 15 |
| | NOV. . | 4 20 7 | 4 8 59 | | ○ | { 17 16 55 | 17 9 8 |
| | DEC. . | { 4 8 51 | 4 2 2 | | NOV. . | 1 11 17 | { 1 11 56 |
| | ○ | { 19 3 13 | 19 9 42 | | DEC. . | { 1 0 1 | { 30 22 45 |
| | | | | | | { 30 12 45 | 30 9 42 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 536. G. March. d. h. m. 27 7 18 | | d. h. m. | d. h. m. | B.C. 533. D.C. March. d. h. m. 27 0 44 | | d. h. m. | d. h. m. |
| | JAN. . | 29 1 30 | 28 20 56 | | JAN. . | 26 16 40 | 27 4 46 |
| | FEB. . | 27 14 14 | 27 8 40 | | ○ | { 10 11 2 | 10 7 9 |
| | MAR. . | 29 2 58 | 28 21 15 | | FEB. . | { 25 5 24 | 25 15 11 |
| | ○ | { 12 21 20 | 13 7 49 | | MAR. . | 25 18 8 | 25 23 38 |
| | APRIL | { 27 15 42 | 27 10 59 | | APRIL | 24 6 52 | 24 6 55 |
| | MAY . | 27 4 26 | 27 1 47 | | MAY . | 23 19 36 | 23 13 58 |
| | JUNE . | 25 17 10 | 25 17 13 | | JUNE . | 22 8 20 | 21 21 57 |
| | JULY . | 25 5 54 | 25 8 38 | | JULY . | 21 21 4 | 21 7 55 |
| | AUG. . | 23 18 38 | 23 23 27 | | ○ | { 5 15 26 | 5 20 53 |
| | SEPT. . | 22 7 22 | 22 13 22 | | AUG. . | { 20 9 48 | 19 20 38 |
| | ○ | { 7 1 44 | 6 12 40 | | SEPT. . | 18 22 32 | 18 12 22 |
| | OCT. . | { 21 20 6 | 22 2 17 | | OCT. . | 18 11 16 | 18 6 36 |
| | NOV. . | 20 8 50 | 20 14 17 | | NOV. . | 17 0 0 | 17 2 0 |
| | DEC. . | 19 21 34 | 20 1 27 | | DEC. . | 16 12 44 | 16 20 57 |
| 535. F. 27 13 7 | JAN. . | 18 10 18 | 18 11 51 | 532. B. 27 6 33 | JAN. . | { 15 1 28 | 15 13 56 |
| | FEB. . | 16 23 2 | 16 21 37 | | ○ | { 29 19 50 | 29 14 6 |
| | MAR. . | 18 11 46 | 18 7 15 | | FEB. . | 13 14 12 | 14 4 6 |
| | APRIL | 17 0 30 | 16 17 25 | | MAR. . | 15 2 56 | 15 15 16 |
| | MAY . | 16 13 14 | 16 4 53 | | APRIL | 13 15 40 | 13 23 56 |
| | JUNE . | 15 1 58 | 14 18 9 | | MAY . | 13 4 24 | 13 7 4 |
| | JULY . | 14 14 42 | 14 9 13 | | JUNE . | 11 17 8 | 11 13 42 |
| | AUG. . | 13 3 26 | 13 1 37 | | JULY . | { 11 5 52 | 10 20 56 |
| | SEPT. . | 11 16 10 | 11 18 29 | | ○ | { 26 0 14 | 26 5 6 |
| | OCT. . | 11 4 54 | 11 10 55 | | AUG. . | 9 18 36 | 9 5 51 |
| | NOV. . | 9 17 38 | 10 2 10 | | SEPT. . | 8 7 20 | 7 17 21 |
| | DEC. . | 9 6 22 | 9 15 48 | | OCT. . | 7 20 4 | 7 7 54 |
| 534. E. 27 18 56 | JAN. . | 7 19 7 | 8 3 41 | 531. A. 27 12 22 | JAN. . | 4 10 17 | 4 15 53 |
| | FEB. . | { 6 7 51 | 6 13 51 | | FEB. . | 2 23 1 | 3 9 54 |
| | ○ | { 21 2 13 | 21 6 23 | | MAR. . | 4 11 45 | 5 1 17 |
| | MAR. . | 7 20 35 | 7 22 43 | | APRIL | 3 0 29 | 3 13 37 |
| | APRIL | 6 9 19 | 6 6 49 | | MAY . | 2 13 13 | 2 23 18 |
| | MAY . | 5 22 3 | 5 15 5 | | JUNE . | { 1 1 57 | 1 6 55 |
| | JUNE . | 4 10 47 | 4 0 31 | | ○ | { 30 14 41 | 30 13 51 |
| | JULY . | 3 23 31 | 3 12 1 | | JULY . | 30 3 25 | 29 21 6 |
| | AUG. . | { 2 12 15 | { 2 2 4 | | AUG. . | 28 16 9 | 28 5 30 |
| | ○ | { 17 6 37 | { 17 6 24 | | SEPT. . | 27 4 53 | 26 16 17 |
| | SEPT. . | { 1 0 59 | { 31 13 32 | | OCT. . | 26 17 37 | 26 5 32 |
| | ○ | { 30 13 43 | 30 12 36 | | NOV. . | 25 6 21 | 24 21 23 |
| | OCT. . | 30 2 27 | 30 7 1 | | ○ | { 10 0 43 | 10 8 25 |
| | NOV. . | 28 15 11 | 29 0 27 | | DEC. . | { 24 19 5 | 24 15 18 |
| | DEC. . | 28 3 55 | 28 15 52 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 530. G. March. d. h. m. 27 18 11 | | d. h. m. | d. h. m. | B.C. 527. C. March. d. h. m. 27 11 37 | | d. h. m. | d. h. m. |
| | JAN. . | 23 7 49 | 23 9 53 | | JAN. . | 19 22 59 | 19 19 34 |
| | FEB. . | 21 20 33 | 22 3 57 | | FEB. . | 18 11 43 | 18 6 43 |
| | MAR. . | 23 9 17 | 23 20 13 | | MAR. . | 20 0 27 | 19 18 31 |
| | APRIL . | 21 22 1 | 22 9 56 | | ○ | { 3 18 49 | 4 7 2 |
| | MAY . | 21 10 45 | 21 21 0 | | APRIL | { 18 13 11 | 18 7 23 |
| | ○ | { 5 5 7 | 4 19 4 | | MAY . | 18 1 55 | 17 21 31 |
| | JUNE . | { 19 23 29 | 20 6 3 | | JUNE . | 16 14 39 | 16 12 40 |
| | JULY . | 19 12 13 | 19 14 1 | | JULY . | 16 3 23 | 16 4 17 |
| | AUG. . | 18 0 57 | 17 21 59 | | AUG. . | 14 16 7 | 14 19 43 |
| | SEPT. . | 16 13 41 | 16 6 48 | | SEPT. . | { 13 4 51 | 13 10 25 |
| | OCT. . | 16 2 25 | 15 17 4 | | ○ | { 27 23 13 | 27 9 48 |
| | NOV. . | { 14 15 9 | 14 5 12 | | OCT. . | 12 17 35 | 13 0 6 |
| | ○ | { 29 9 31 | 29 19 28 | | NOV. . | 11 6 19 | 11 12 46 |
| | DEC. . | 14 3 53 | 13 19 14 | | DEC. . | 10 19 4 | 11 0 27 |
| 529. F.E. 27 0 0 | JAN. . | 12 16 38 | 12 10 59 | 526. B. 27 17 26 | JAN. . | 9 7 48 | 9 11 8 |
| | FEB. . | 11 5 22 | 11 3 50 | | FEB. . | 7 20 32 | 7 21 0 |
| | MAR. . | 11 18 6 | 11 20 57 | | MAR. . | { 9 9 16 | 9 6 24 |
| | APRIL . | 10 6 50 | 10 18 21 | | ○ | { 24 3 38 | 24 16 21 |
| | MAY . | { 9 19 34 | 10 4 11 | | APRIL | 7 22 0 | 7 15 55 |
| | ○ | { 21 13 56 | 24 6 13 | | MAY . | 7 10 44 | 7 2 26 |
| | JUNE . | 8 8 18 | 8 17 3 | | JUNE . | 5 23 28 | 5 14 37 |
| | JULY . | 7 21 2 | 8 4 3 | | JULY . | 5 12 12 | 5 4 47 |
| | AUG. . | 6 9 46 | 6 13 49 | | AUG. . | 4 0 56 | 3 20 42 |
| | SEPT. . | 4 22 30 | 4 23 9 | | SEPT. . | { 2 13 40 | 2 13 41 |
| | OCT. . | 4 11 14 | 4 8 45 | | ○ | { 17 8 2 | 16 22 35 |
| | NOV. . | { 2 23 58 | 2 19 7 | | OCT. . | { 2 2 24 | 2 6 43 |
| | ○ | { 17 18 20 | 17 23 20 | | NOV. . | 30 3 52 | 30 13 33 |
| | DEC. . | 2 12 42 | { 2 6 27 | | DEC. . | 29 16 36 | 30 2 20 |
| | ... | ... | { 31 18 47 | | | | |
| 528. D. 27 5 49 | JAN. . | { 1 1 26 | ... | 525. A.G. 26 23 15 | JAN. . | 23 5 21 | 23 13 15 |
| | FEB. . | { 30 14 11 | 30 8 9 | | FEB. . | 26 13 5 | 26 22 32 |
| | MAR. . | { 1 2 55 | ... | | ○ | { 12 12 27 | 12 18 35 |
| | APRIL . | { 30 15 39 | 30 13 47 | | MAR. . | { 27 6 49 | 27 6 42 |
| | ○ | { 13 22 45 | 13 22 33 | | APRIL | 25 19 33 | 25 14 35 |
| | MAY . | { 23 17 7 | 23 20 50 | | MAY . | 25 8 17 | 24 23 10 |
| | JUNE . | 27 5 51 | 27 11 21 | | JUNE . | 23 21 1 | 23 9 27 |
| | JULY . | 26 18 35 | 27 0 38 | | JULY . | 23 9 45 | 22 22 11 |
| | AUG. . | 25 7 19 | 25 12 45 | | AUG. . | 21 22 29 | 21 13 36 |
| | SEPT. . | 23 20 3 | 24 0 2 | | ○ | { 5 16 51 | 5 14 50 |
| | OCT. . | 23 8 47 | 23 10 53 | | SEPT. . | { 20 11 13 | 20 7 11 |
| | NOV. . | 21 21 31 | 21 21 49 | | OCT. . | 19 23 57 | 20 1 43 |
| | DEC. . | 21 10 15 | 21 8 40 | | NOV. . | 18 12 41 | 18 20 2 |
| | | | | | DEC. . | 18 1 25 | 18 12 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 524. F. March. d. h. m. 27 5 4 | JAN. . | d. h. m. 16 14 9 | d. h. m. 17 2 50 | B.C. 521. C.B. March. d. h. m. 26 22 30 | JAN. . | d. h. m. 14 5 19 | d. h. m. 14 4 25 |
| | FEB. . | 15 2 53 | 15 14 21 | | FEB. . | 12 18 3 | 12 22 47 |
| | MAR. . | 16 15 37 | 16 23 34 | | MAR. . | 13 6 47 | 13 15 57 |
| | APRIL . | 15 4 21 | 15 7 10 | | APRIL . | 11 19 31 | 12 6 54 |
| | MAY . | 14 17 5 | 14 14 7 | | MAY . | 11 8 15 | 11 19 16 |
| | JUNE . | 13 5 49 | 12 21 26 | | JUNE . | 9 20 59 | 10 5 18 |
| | JULY . | 12 18 33 | 12 6 15 | | ○ | 24 15 21 | 24 4 38 |
| | AUG. . | 11 7 17 | 10 17 33 | | JULY . | 9 9 43 | 9 13 51 |
| | SEPT. . | 9 20 1 | 9 7 54 | | AUG. . | 7 22 27 | 7 21 53 |
| | OCT. . | 9 8 45 | 9 1 6 | | SEPT. . | 6 11 11 | 6 6 22 |
| | NOV. . | 7 21 29 | 7 20 12 | | OCT. . | 5 23 55 | 5 16 1 |
| | DEC. . | 7 10 13 | 7 15 38 | | NOV. . | 4 12 39 | 4 8 16 |
| | | | | | DEC. . | 4 1 23 | 3 16 18 |
| 523. E. 27 10 53 | JAN. . | 5 22 58 | 6 9 48 | 520. A. 27 4 19 | JAN. . | 2 14 8 | 2 7 4 |
| | ○ | 20 17 20 | 20 12 9 | | FEB. . | 1 2 52 | 31 23 11 |
| | FEB. . | 4 11 42 | 5 1 24 | | ... | ... | ... |
| | MAR. . | 6 0 26 | 6 13 56 | | MAR. . | 2 15 36 | 2 16 2 |
| | APRIL . | 4 13 10 | 4 23 40 | | APRIL . | 1 4 20 | 1 8 42 |
| | MAY . | 4 1 54 | 4 7 23 | | ... | ... | ... |
| | JUNE . | 2 14 33 | 2 14 6 | | MAY . | 30 5 48 | 30 14 14 |
| | ... | ... | ... | | JUNE . | 28 18 32 | 29 2 16 |
| | JULY ○ | 2 3 22 | 1 20 55 | | JULY . | 23 7 16 | 23 12 47 |
| | ... | ... | ... | | AUG. . | 26 20 0 | 26 22 29 |
| | AUG. . | 16 21 44 | 17 1 20 | | SEPT. . | 25 8 44 | 25 8 7 |
| | ... | ... | ... | | OCT. . | 24 21 23 | 24 18 15 |
| | SEPT. . | 31 16 6 | 31 4 56 | | ○ | 8 15 50 | 8 17 50 |
| | OCT. . | 30 4 50 | 29 15 9 | | NOV. . | 23 10 12 | 23 5 8 |
| | NOV. . | 28 17 34 | 28 4 14 | | DEC. . | 22 22 56 | 22 16 52 |
| | DEC. . | 23 6 18 | 27 20 19 | | | | |
| | | 26 19 2 | 26 14 43 | | | | |
| | | 26 7 46 | 26 10 10 | | | | |
| 522. D. 27 16 42 | ○ | 10 2 8 | 10 2 43 | 519. G. 27 10 8 | JAN. . | 21 11 41 | 21 5 30 |
| | JAN. . | 24 20 31 | 25 5 0 | | FEB. . | 20 0 25 | 19 19 5 |
| | FEB. . | 23 9 15 | 23 21 43 | | MAR. . | 21 13 9 | 21 9 37 |
| | MAR. . | 24 21 59 | 25 11 31 | | APRIL . | 20 1 53 | 20 0 55 |
| | APRIL . | 23 10 43 | 23 22 21 | | ○ | 4 20 15 | 4 22 56 |
| | MAY . | 22 23 27 | 23 6 54 | | MAY . | 19 14 37 | 19 16 26 |
| | JUNE . | 21 12 11 | 21 14 9 | | JUNE . | 18 3 21 | 18 7 31 |
| | ○ | 6 6 33 | 6 2 11 | | JULY . | 17 16 5 | 17 21 38 |
| | JULY . | 21 0 55 | 20 21 13 | | AUG. . | 16 4 49 | 16 10 34 |
| | AUG. . | 19 13 39 | 19 5 9 | | SEPT. . | 14 17 33 | 14 22 31 |
| | SEPT. . | 18 2 23 | 17 14 48 | | OCT. . | 14 6 17 | 14 9 50 |
| | OCT. . | 17 15 7 | 17 2 47 | | ○ | 29 0 39 | 28 17 3 |
| | NOV. . | 16 3 51 | 15 17 21 | | NOV. . | 12 19 1 | 12 20 52 |
| | DEC. . | 15 16 35 | 15 10 11 | | DEC. . | 12 7 45 | 12 7 44 |
| | ○ | 30 10 57 | 30 18 33 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 518. F. March. <i>d. h. m.</i> 27 15 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 515. B. March. <i>d. h. m.</i> 27 9 23 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 20 29 | 10 18 28 | | JAN. . | 7 11 39 | 8 0 16 |
| | FEB. . | 9 9 13 | 9 5 13 | | FEB. . | 6 0 23 | 6 13 2 |
| | MAR. . | 10 21 57 | 10 16 20 | | ○ | 20 18 45 | 20 14 42 |
| | APRIL | { 9 10 41 | 9 4 21 | | MAR. . | 7 13 7 | 7 23 13 |
| | ○ | 24 5 3 | 24 15 15 | | APRIL | 6 1 51 | 6 7 23 |
| | MAY . | 8 23 25 | 8 17 38 | | MAY . | 5 14 35 | 5 14 25 |
| | JUNE . | 7 12 9 | 7 8 13 | | JUNE . | 4 3 19 | 3 21 20 |
| | JULY . | 7 0 53 | 6 23 45 | | JULY . | 3 16 3 | 3 5 15 |
| | AUG. . | 5 13 37 | 5 15 33 | | | 2 4 47 | 1 15 14 |
| | SEPT. . | 4 2 21 | 4 6 57 | | AUG. ○ | 16 23 9 | 17 4 31 |
| | OCT. . | { 8 15 5 | 3 21 28 | | | 31 17 31 | 31 4 6 |
| | ○ | 18 9 27 | 17 20 52 | | SEPT. . | 30 6 15 | 29 20 2 |
| | NOV. . | 2 3 49 | 2 10 53 | | OCT. . | 29 18 59 | 29 14 26 |
| | DEC. . | { 1 16 33 | 1 23 10 | | NOV. . | 28 7 43 | 28 9 53 |
| | | 31 5 17 | 31 10 20 | | DEC. . | 27 20 27 | 28 4 53 |
| 517. E.D. 26 21 46 | JAN. . | 29 18 2 | 29 20 28 | 514. A. 27 15 12 | JAN. . | 26 9 12 | 26 21 56 |
| | FEB. . | 28 6 46 | 28 5 43 | | ○ | 10 3 34 | 9 22 15 |
| | MAR. . | 28 19 30 | 28 14 54 | | FEB. . | 24 21 56 | 25 11 57 |
| | APRIL | 27 8 14 | 27 0 36 | | MAR. . | 26 10 40 | 26 22 57 |
| | MAY . | 26 20 58 | 26 11 42 | | APRIL | 24 23 24 | 25 7 23 |
| | JUNE . | 25 9 42 | 25 0 47 | | MAY . | 24 12 8 | 24 14 31 |
| | JULY . | 24 22 26 | 24 15 57 | | JUNE . | 23 0 52 | 22 21 10 |
| | AUG. . | 23 11 10 | 23 8 40 | | JULY . | 22 13 36 | 22 4 32 |
| | SEPT. . | 21 23 54 | 22 2 2 | | ○ | 6 7 53 | 6 12 9 |
| | OCT. . | 21 12 33 | 21 19 1 | | AUG. . | 21 2 20 | 20 13 33 |
| | NOV. . | 20 1 22 | 20 10 41 | | SEPT. . | 19 15 4 | 19 1 19 |
| | DEC. . | 19 14 6 | 20 0 31 | | OCT. . | 19 3 43 | 18 15 53 |
| | | | | | NOV. . | 17 16 32 | 17 9 20 |
| | | | | | DEC. . | 17 5 16 | 17 4 24 |
| 518. C. 27 3 34 | JAN. . | 18 2 50 | 18 12 19 | 513. G.F. 26 21 1 | JAN. . | 15 18 0 | 15 23 33 |
| | FEB. . | 16 15 34 | 16 22 12 | | FEB. . | 14 6 44 | 14 17 27 |
| | ○ | { 8 9 56 | 8 13 33 | | MAR. . | 14 19 23 | 15 8 40 |
| | MAR. . | 18 4 18 | 18 6 41 | | APRIL | 13 8 12 | 13 20 54 |
| | APRIL | 16 17 2 | 16 14 24 | | MAY . | 12 20 56 | 13 6 29 |
| | MAY . | 16 5 46 | 15 22 20 | | JUNE . | 11 9 40 | 11 14 13 |
| | JUNE . | 14 13 30 | 14 7 33 | | JULY . | 10 22 24 | 10 21 26 |
| | JULY . | 14 7 14 | 13 18 53 | | AUG. . | 9 11 8 | 9 4 57 |
| | AUG. . | { 12 19 53 | 12 9 7 | | SEPT. . | 7 23 52 | 7 13 43 |
| | ○ | 27 14 20 | 27 14 26 | | OCT. . | 7 12 36 | 7 0 40 |
| | SEPT. . | 11 8 42 | 11 1 50 | | NOV. . | 6 1 20 | 5 13 53 |
| | OCT. . | 10 21 26 | 10 20 16 | | DEC. . | { 5 14 4 | 5 5 39 |
| | NOV. . | 9 10 10 | 9 15 4 | | ○ | 20 8 26 | 20 17 12 |
| | DEC. . | 8 22 54 | 9 8 45 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 512. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 509. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 4 2 49 | 3 23 10 | March. | JAN. . | { 1 17 59 | 1 17 32 |
| <i>d. h. m.</i> | FEB. . | 2 15 33 | 2 17 26 | <i>d. h. m.</i> | FEB. . | { 31 6 43 | 31 4 8 |
| 27 2 49 | MAR. . | 4 4 17 | 4 11 10 | 26 20 16 | MAR. . | 29 19 27 | 29 14 39 |
| | APRIL | 2 17 1 | 3 3 12 | | | 30 8 11 | 30 1 52 |
| | MAY . | { 2 5 45 | 2 16 51 | | ○ | { 14 2 33 | 14 14 27 |
| | ○ | { 31 18 29 | { 1 4 4 | | APRIL | { 23 20 55 | 23 14 14 |
| | JUNE . | { 15 12 51 | { 15 1 57 | | MAY . | 28 9 39 | 28 4 3 |
| | JULY . | { 30 7 13 | { 30 13 22 | | JUNE . | 26 22 23 | 26 19 10 |
| | AUG. . | 29 19 57 | 29 21 43 | | JULY . | 26 11 7 | 26 11 4 |
| | SEPT. . | 28 8 41 | 28 6 5 | | AUG. . | 24 23 51 | 25 3 0 |
| | OCT. . | 26 21 25 | 26 15 17 | | SEPT. . | 23 12 35 | 23 18 13 |
| | NOV. . | 26 10 9 | 26 1 48 | | ○ | { 8 6 57 | 7 18 3 |
| | DEC. . | { 9 17 15 | 10 3 59 | | OCT. . | { 23 1 19 | 23 8 33 |
| | | { 24 11 37 | 24 3 42 | | NOV. . | 21 14 3 | 21 21 34 |
| | | | | | DEC. . | 21 2 47 | 21 9 20 |
| 511. | JAN. . | 23 0 22 | 22 18 58 | 508. | JAN. . | 19 15 32 | 19 19 51 |
| D. | FEB. . | 21 13 6 | 21 11 15 | G. | FEB. . | 18 4 16 | 18 5 20 |
| 27 8 38 | MAR. . | 23 1 50 | 23 3 53 | 27 2 5 | MAR. . | 19 17 0 | 19 14 15 |
| | APRIL | 21 14 34 | 21 20 0 | | ○ | { 3 11 22 | 3 23 27 |
| | MAY . | 21 3 18 | 21 10 49 | | APRIL | { 18 5 44 | 17 23 18 |
| | ○ | { 4 21 40 | 4 13 30 | | MAY . | 17 18 28 | 17 9 25 |
| | JUNE . | { 19 16 2 | 19 23 54 | | JUNE . | 16 7 12 | 15 21 21 |
| | JULY . | 19 4 46 | 19 11 20 | | JULY . | 15 19 56 | 15 11 30 |
| | AUG. . | 17 17 30 | 17 21 35 | | AUG. . | 14 8 40 | 14 3 39 |
| | SEPT. . | 16 6 14 | 16 7 26 | | SEPT. . | { 12 21 24 | 12 21 2 |
| | OCT. . | 15 18 58 | 15 17 28 | | ○ | { 27 15 46 | 27 7 1 |
| | NOV. . | { 14 7 42 | 14 4 4 | | OCT. . | 12 10 8 | 12 14 35 |
| | DEC. . | { 29 2 4 | 29 7 24 | | NOV. . | 10 22 52 | 11 7 14 |
| | | 13 20 26 | 13 15 20 | | DEC. . | 10 11 36 | 10 22 10 |
| 510. | JAN. . | 12 9 10 | 12 3 18 | 507. | JAN. . | 9 0 20 | 9 10 58 |
| C. | FEB. . | 10 21 54 | 10 16 7 | F. | FEB. . | 7 13 4 | 7 21 41 |
| 27 14 27 | MAR. . | 12 10 38 | 12 5 53 | 27 7 54 | MAR. . | { 9 1 48 | 9 6 33 |
| | APRIL | 10 23 22 | 10 20 35 | | ○ | { 23 20 10 | 24 1 30 |
| | MAY . | { 10 12 6 | 10 11 55 | | APRIL | 7 14 32 | 7 14 26 |
| | ○ | { 25 6 28 | 25 6 0 | | MAY . | 7 3 16 | 6 21 59 |
| | JUNE . | 9 0 50 | 9 3 17 | | JUNE . | 5 16 0 | 5 6 18 |
| | JULY . | 8 13 34 | 8 13 4 | | JULY . | 5 4 44 | 4 16 23 |
| | AUG. . | 7 2 18 | 7 7 52 | | AUG. . | 3 17 23 | 3 5 15 |
| | SEPT. . | 5 15 2 | 5 20 34 | | SEPT. . | { 2 6 12 | 1 20 50 |
| | OCT. . | 5 3 46 | 5 8 26 | | ○ | { 17 0 34 | 16 23 11 |
| | NOV. . | 3 16 30 | 3 19 47 | | OCT. . | { 1 18 56 | 1 14 42 |
| | DEC. . | 3 5 14 | 3 6 47 | | | { 31 7 40 | 31 9 39 |
| | | | | | NOV. . | 29 20 24 | 30 4 12 |
| | | | | | DEC. . | 29 9 8 | 29 20 59 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 506. E. March. d. h. m. 27 13 42 | | d. h. m. | d. h. m. | B.C. 503. A. March. d. h. m. 27 7 9 | | d. h. m. | d. h. m. |
| | JAN. . | 27 21 53 | 23 11 7 | | ○ | { 9 18 41 | 10 3 18 |
| | FEB. . | 26 10 37 | 26 22 28 | | JAN. . | { 24 13 3 | 24 12 9 |
| | MAR. . | 27 23 21 | 28 7 25 | | FEB. . | 23 1 47 | 23 6 5 |
| | APRIL | 26 12 5 | 26 14 46 | | MAR. . | 24 14 31 | 24 22 55 |
| | MAY . | 26 0 49 | 25 21 32 | | APRIL | 23 3 15 | 23 13 45 |
| | JUNE . | 24 13 33 | 24 4 48 | | MAY . | 22 15 59 | 23 2 11 |
| | JULY . | 24 2 17 | 23 13 39 | | JUNE . | 21 4 43 | 21 12 30 |
| | AUG. . | 22 15 1 | 22 1 3 | | ○ | { 5 23 5 | 5 11 31 |
| | SEPT. . | 21 3 45 | 20 15 33 | | JULY . | { 20 17 27 | 20 21 23 |
| | OCT. . | 20 16 29 | 20 8 54 | | AUG. . | 19 6 11 | 19 5 51 |
| | NOV. . | 19 5 13 | 19 4 7 | | SEPT. . | 17 18 55 | 17 14 46 |
| | DEC. . | 18 17 57 | 18 23 38 | | OCT. . | 17 7 39 | 17 0 42 |
| | | | | | NOV. . | 15 20 23 | 15 12 4 |
| | | | | | DEC. . | 15 9 7 | 15 0 56 |
| 505. D.C. 26 19 31 | JAN. . | 17 6 42 | { 17 17 46 31 20 31 | 502. G. 27 12 53 | JAN. . | 13 21 51 | 13 15 16 |
| | ○ | { 1 1 4 | | | FEB. . | 12 10 35 | 12 6 43 |
| | FEB. . | { 15 19 26 | 16 9 15 | | MAR. . | 13 23 19 | 13 23 5 |
| | MAR. . | 16 8 10 | 16 21 38 | | APRIL | 12 12 3 | 12 15 23 |
| | APRIL | 14 20 54 | 15 7 13 | | MAY . | 12 0 47 | 12 6 52 |
| | MAY . | 14 9 38 | 14 14 51 | | JUNE . | 10 13 31 | 10 20 55 |
| | JUNE . | 12 22 22 | 12 21 34 | | JULY . | 10 2 15 | 10 9 19 |
| | JULY . | { 12 11 6 | 12 4 29 | | AUG. . | 8 14 59 | 8 20 21 |
| | ○ | { 27 5 28 | 27 8 12 | | SEPT. . | 7 3 43 | 7 6 35 |
| | AUG. . | 10 23 50 | 10 12 42 | | OCT. . | 6 16 27 | 6 16 42 |
| | SEPT. . | 9 12 34 | 8 23 7 | | NOV. . | { 5 5 11 | 5 3 7 |
| | OCT. . | 9 1 18 | 8 12 20 | | ○ | { 19 23 33 | 20 1 47 |
| | NOV. . | 7 14 2 | 7 4 25 | | DEC. . | 4 17 55 | 4 14 4 |
| | DEC. . | 7 2 46 | 6 22 46 | | | | |
| 504. B. 27 1 20 | JAN. . | { 5 15 30 | 5 18 1 | 501. F.E. 26 18 47 | JAN. . | 3 6 40 | 3 1 34 |
| | ○ | { 20 9 52 | 20 11 24 | | FEB. . | 1 19 24 | 1 13 42 |
| | FEB. . | 4 4 14 | 4 12 36 | | ○ | { 2 8 8 | 2 2 40 |
| | MAR. . | 5 16 58 | 6 5 5 | | MAR. . | { 31 20 52 | 31 16 37 |
| | APRIL | 4 5 42 | 4 18 45 | | APRIL | 30 9 36 | 30 7 30 |
| | MAY . | 3 18 26 | 4 5 35 | | ○ | { 15 3 58 | 15 6 26 |
| | JUNE . | 2 7 10 | 2 14 12 | | MAY . | { 29 22 20 | 29 22 51 |
| | ○ | { 1 19 54 | 1 21 39 | | JUNE . | 28 11 4 | 28 14 6 |
| | JULY ○ | { 16 14 16 | 16 8 47 | | JULY . | 27 23 43 | 28 4 33 |
| | | { 31 8 33 | 31 4 59 | | AUG. . | 26 12 32 | 26 18 9 |
| | AUG. . | 29 21 22 | 29 13 14 | | SEPT. . | 25 1 16 | 25* 6 42 |
| | SEPT. . | 28 10 6 | 27 23 9 | | OCT. . | 24 14 0 | 24 18 31 |
| | OCT. . | 27 22 50 | 27 11 17 | | ○ | { 8 8 22 | 8 1 3 |
| | NOV. . | 26 11 34 | 26 1 45 | | NOV. . | { 23 2 44 | 23 5 49 |
| | DEC. . | 26 0 18 | 25 18 17 | | DEC. . | 22 15 28 | 22 16 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---|--|---|---|---|---|--|
| B.C. 500. D. March. d. h. m. 27 0 35 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | d. h. m. 21 4 13 19 16 57 21 5 41 19 18 25 4 12 47 19 7 9 17 19 53 17 8 37 15 21 21 14 10 5 13 22 49 28 17 11 12 11 33 12 0 17 | d. h. m. 21 3 6 19 13 23 20 23 56 19 11 24 4 22 36 19 0 17 17 14 43 17 6 24 15 22 36 14 14 34 14 5 41 28 5 14 12 19 34 12 8 2 | B.C. 497. A.G. March. d. h. m. 26 18 2 | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. . ○ SEPT. . OCT. . NOV. . DEC. . | d. h. m. 18 19 23 17 8 7 3 2 29 17 20 51 16 9 35 15 22 19 14 11 3 13 23 47 12 12 31 27 6 53 11 1 15 10 13 59 9 2 43 8 15 27 | d. h. m. 19 8 33 17 21 11 2 22 8 18 7 8 16 15 4 15 21 55 14 4 43 18 12 40 11 22 46 27 12 18 10 11 46 10 3 50 8 22 21 8 17 57 |
| 499. C. 27 6 24 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 10 13 1 9 1 45 10 14 29 9 3 13 8 15 57 7 4 41 6 17 25 5 6 9 3 18 53 3 7 37 1 20 21 1 9 5 | 10 19 6 9 4 55 10 13 50 8 22 28 8 7 43 6 18 31 6 7 31 4 22 47 3 15 51 3 9 41 2 3 9 1 19 11 | 496. F. 26 23 51 | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. ○ SEPT. . OCT. . NOV. . DEC. . | 7 4 11 5 16 55 20 11 17 7 5 39 5 18 23 5 7 7 3 19 51 3 8 35 1 21 19 16 15 41 31 10 3 29 22 47 29 11 31 28 0 15 27 12 59 | 7 12 56 6 5 46 20 6 16 7 19 38 6 6 29 5 14 54 3 21 56 3 4 42 1 12 14 16 19 19 30 21 33 29 9 25 29 0 8 27 17 27 27 12 19 |
| 498. B. 27 12 13 | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. . ○ SEPT. . OCT. . NOV. . DEC. . | 29 10 34 27 23 18 14 17 40 29 12 2 28 0 46 27 13 30 26 2 14 25 14 58 24 3 42 7 22 4 22 16 26 22 5 10 20 17 54 20 6 38 | 29 20 50 28 6 27 14 20 35 29 14 33 27 21 56 27 5 36 25 14 39 25 2 3 23 16 19 7 22 39 22 9 17 22 4 2 20 23 7 20 17 1 | 495. E. 27 5 40 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | 26 1 44 24 14 28 26 3 12 24 15 56 24 4 40 22 17 24 22 6 8 20 18 52 19 7 36 18 20 20 17 9 4 16 21 48 31 16 11 | 26 7 18 25 0 51 26 15 54 25 4 4 24 13 43 22 21 42 22 5 6 20 12 57 18 22 8 18 9 12 16 22 30 16 13 58 ... |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 494. D. March. d. h. m. 27 11 28 | | d. h. m. | d. h. m. | B.C. 491. G. March. d. h. m. 27 4 55 | | d. h. m. | d. h. m. |
| | O | ... | 1 1 58 | | JAN. . | 12 1 42 | 12 2 17 |
| | JAN. . | 15 10 33 | 15 7 4 | | FEB. . | 10 14 26 | 10 12 24 |
| | FEB. . | 13 23 17 | 14 0 52 | | MAR. . | 12 3 10 | 11 22 28 |
| | MAR. . | 15 12 1 | 15 18 12 | | APRIL | { 10 15 54 | 10 9 7 |
| | APRIL | 14 0 45 | 14 10 2 | | O | { 25 10 16 | 25 21 47 |
| | MAY . | 13 13 29 | 13 23 41 | | MAY . | 10 4 38 | 9 21 1 |
| | JUNE . | { 12 2 13 | 12 11 6 | | JUNE . | 8 17 22 | 8 10 35 |
| | O | { 26 20 35 | 26 8 54 | | JULY . | 8 6 6 | 8 1 43 |
| | JULY . | 11 14 57 | 11 20 45 | | AUG. . | 6 18 50 | 6 17 55 |
| | AUG. . | 10 3 41 | 10 5 32 | | SEPT. . | 5 7 34 | 5 10 21 |
| | SEPT. . | 8 16 25 | 8 14 20 | | OCT. . | { 4 20 18 | 5 2 15 |
| | OCT. . | 8 5 9 | 7 23 54 | | O | { 19 14 40 | 19 2 25 |
| | NOV. . | 6 17 53 | 6 10 38 | | NOV. . | 3 9 2 | 3 17 2 |
| | DEC. . | { 6 6 37 | 5 22 40 | | DEC. . | 2 21 46 | 3 6 22 |
| | O | { 21 0 59 | 21 12 22 | | | | |
| 493. C.R. 26 17 17 | JAN. . | 4 19 21 | 4 12 7 | 490. F. 27 10 44 | JAN. . | { 1 10 31 | 1 18 9 |
| | FEB. . | 3 8 5 | 3 2 50 | | FEB. . | { 30 23 15 | 31 4 26 |
| | MAR. . | 3 20 49 | 3 18 32 | | | ... | ... |
| | APRIL | 2 9 33 | 2 10 41 | | MAR. . | { 1 11 59 | 1 13 32 |
| | MAY . | { 1 22 17 | 2 2 33 | | O | { 31 0 43 | 30 21 59 |
| | O | { 31 11 1 | 31 17 24 | | APRIL | { 14 19 5 | 15 6 24 |
| | JUNE . | { 15 5 23 | 14 20 48 | | MAY . | { 29 13 27 | 29 6 37 |
| | JULY . | { 29 23 45 | 30 6 46 | | JUNE . | 29 2 11 | 28 16 22 |
| | AUG. . | 23 1 13 | 23 5 29 | | JULY . | 27 14 55 | 27 4 8 |
| | SEPT. . | 26 13 57 | 26 15 51 | | AUG. . | 27 3 39 | 26 18 17 |
| | OCT. . | 26 2 41 | 26 2 16 | | SEPT. . | 25 16 23 | 25 10 42 |
| | NOV. . | 24 15 25 | 24 13 0 | | O | 24 5 7 | 24 4 29 |
| | O | { 9 9 47 | 9 15 26 | | OCT. . | { 8 23 29 | 8 15 36 |
| | DEC. . | { 24 4 9 | 24 0 9 | | NOV. . | { 23 17 51 | 23 22 32 |
| 492. A. 26 23 6 | JAN. . | 22 16 54 | 22 11 46 | 489. E.D. 26 16 33 | NOV. . | 22 6 35 | 22 15 35 |
| | FEB. . | 21 5 38 | 20 23 59 | | DEC. . | 21 19 19 | 22 6 44 |
| | MAR. . | 22 13 22 | 22 13 8 | | | | |
| | APRIL | 21 7 6 | 21 3 19 | | JAN. . | 20 8 4 | 20 19 32 |
| | MAY . | 20 19 50 | 20 18 23 | | FEB. . | 18 20 48 | 19 6 0 |
| | O | { 4 14 12 | 4 13 26 | | MAR. . | 19 9 32 | 19 14 37 |
| | JUNE . | { 19 8 34 | 19 9 47 | | O | { 3 3 54 | 3 8 17 |
| | JULY . | 18 21 13 | 19 0 53 | | APRIL | { 17 22 16 | 17 22 5 |
| | AUG. . | 17 10 2 | 17 15 13 | | MAY . | 17 11 0 | 17 5 20 |
| | SEPT. . | 15 22 46 | 16 4 32 | | JUNE . | 15 23 44 | 15 13 29 |
| | OCT. . | 15 11 30 | 15 16 58 | | JULY . | 15 12 28 | 14 23 35 |
| | NOV. . | 14 0 14 | 14 4 39 | | AUG. . | 14 1 12 | 13 12 27 |
| | DEC. . | 13 12 58 | 13 15 45 | | SEPT. . | { 12 13 56 | 12 4 14 |
| | | | | | O | { 27 8 18 | 27 7 41 |
| | | | | | OCT. . | 12 2 40 | 11 22 22 |
| | | | | | NOV. . | 10 15 24 | 10 17 38 |
| | | | | | DEC. . | 10 4 8 | 10 12 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 488. C. March. d. h. m. 26 22 21 | JAN. . | d. h. m. 8 16 52 | d. h. m. 9 5 13 | B.C. 485. G.F. March. d. h. m. 26 15 48 | JAN. . | d. h. m. 6 8 2 | d. h. m. 6 2 23 |
| | FEB. . | 7 5 36 | 7 19 16 | | ○ | { 21 2 24 | 21 11 53 |
| | MAR. . | 8 18 20 | 9 6 24 | | FEB. . | 4 20 46 | 4 19 42 |
| | APRIL | 7 7 4 | 7 15 7 | | MAR. . | 5 9 30 | 5 13 11 |
| | MAY .. | 6 19 48 | 6 22 17 | | APRIL | 3 22 14 | 4 5 45 |
| | JUNE . | 5 8 32 | 5 4 56 | | MAY . | 3 10 58 | 3 20 31 |
| | JULY . | 4 21 16 | 4 12 12 | | JUNE . | 1 23 42 | 2 9 4 |
| | AUG. . | 3 10 0 | 2 21 9 | | | { 1 12 26 | 1 19 41 |
| | SEPT. . | 1 22 44 | { 1 8 42 | | JULY ○ | { 16 6 48 | 15 18 28 |
| | | { 1 11 23 | { 30 23 21 | | | { 31 1 10 | 31 5 0 |
| | OCT. . | { 31 0 12 | 30 16 49 | | AUG. . | 29 13 54 | 29 13 56 |
| | NOV. . | 29 12 56 | 29 12 6 | | SEPT. . | 28 2 38 | 27 23 15 |
| | DEC. . | 29 1 40 | 29 7 34 | | OCT. . | 27 15 22 | 27 9 29 |
| | | | | | NOV. . | 26 4 6 | 25 20 53 |
| | | | | | DEC. . | 25 16 50 | 25 9 31 |
| 487. B. | JAN. . | 27 14 25 | 28 1 35 | 484. E. | JAN. . | 24 5 35 | 23 23 23 |
| | ○ | { 11 8 47 | 11 4 45 | | FEB. . | 22 18 19 | 22 14 20 |
| 27 4 10 | FEB. . | { 26 3 9 | 26 16 55 | 26 21 37 | MAR. . | 24 7 3 | 24 6 4 |
| | MAR. . | 27 15 53 | 28 5 9 | | APRIL | 22 19 47 | 22 22 0 |
| | APRIL | 26 4 37 | 26 14 39 | | MAY . | 22 8 31 | 22 13 24 |
| | MAY . | 25 17 21 | 25 22 14 | | JUNE . | 20 21 15 | 21 3 39 |
| | JUNE . | 24 6 5 | 24 5 2 | | JULY . | 20 9 59 | 20 16 28 |
| | JULY . | 23 18 49 | 23 12 9 | | AUG. . | 18 22 43 | 19 4 1 |
| | ○ | { 7 13 11 | 7 15 10 | | SEPT. . | 17 11 27 | 17 14 50 |
| | AUG. . | { 22 7 33 | 21 20 35 | | OCT. . | 17 0 11 | 17 1 23 |
| | SEPT. . | 20 20 17 | 20 7 13 | | NOV. . | { 15 12 55 | 15 12 4 |
| | OCT. . | 20 9 1 | 19 20 34 | | ○ | { 30 7 17 | 30 9 47 |
| | NOV. . | 18 21 45 | 18 12 38 | | DEC. . | 15 1 39 | 14 22 59 |
| | DEC. . | 18 10 29 | 18 6 46 | | | | |
| 486. A. | JAN. . | { 16 23 14 | 17 1 45 | 483. D. | JAN. . | 13 14 24 | 13 10 12 |
| | ○ | { 31 17 36 | 31 20 0 | | FEB. . | 12 3 8 | 11 21 49 |
| 27 9 59 | FEB. . | 15 11 58 | 15 20 1 | 27 3 26 | MAR. . | 13 15 52 | 13 10 10 |
| | MAR. . | 17 0 42 | 17 12 19 | | APRIL | 12 4 36 | 11 23 34 |
| | APRIL | 15 13 26 | 16 1 53 | | MAY . | { 11 17 20 | 11 14 3 |
| | MAY . | 15 2 10 | 15 12 44 | | ○ | { 26 11 42 | 26 13 28 |
| | JUNE . | 13 14 54 | 13 21 30 | | JUNE . | 10 6 4 | 10 5 18 |
| | JULY . | { 13 3 38 | 13 5 12 | | JULY . | 9 18 48 | 9 20 44 |
| | ○ | { 27 22 0 | 27 15 32 | | AUG. . | 8 7 32 | 8 11 44 |
| | AUG. . | 11 16 22 | 11 12 53 | | SEPT. . | 6 20 16 | 7 1 51 |
| | SEPT. . | 10 5 6 | 9 21 28 | | OCT. . | 6 9 0 | 6 15 1 |
| | OCT. . | 9 17 50 | 9 7 41 | | NOV. . | { 4 21 44 | 5 3 17 |
| | NOV. . | 8 6 34 | 7 19 53 | | ○ | { 19 16 6 | 19 9 7 |
| | DEC. . | 7 19 18 | 7 10 13 | | DEC. . | 4 10 28 | 4 14 46 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 482. c. March. d. h. m. 27 9 14 | | d. h. m. | d. h. m. | B.C. 479. F. March. d. h. m. 27 2 41 | | d. h. m. | d. h. m. |
| | JAN. . | 2 23 12 | 3 1 81 | | JAN. . | 29 3 6 | 29 16 40 |
| | FEB. . | 1 11 56 | 1 11 38 | | FEB. . | 27 15 50 | 28 5 9 |
| | MAR. . | 3 0 40 | 2 21 25 | | ○ | 14 10 12 | 14 5 27 |
| | APRIL | 1 13 24 | 1 7 25 | | MAR. . | 29 4 34 | 29 14 53 |
| | | 1 2 8 | 30 18 23 | | APRIL | 27 17 18 | 27 22 36 |
| | MAY ○ | 15 20 30 | 16 5 52 | | MAY . | 27 6 2 | 27 5 20 |
| | | 30 14 52 | 30 6 55 | | JUNE . | 25 18 46 | 25 12 9 |
| | JUNE . | 29 3 36 | 28 21 15 | | JULY . | 25 7 30 | 24 20 11 |
| | JULY . | 28 16 20 | 28 13 6 | | AUG. . | 23 20 14 | 23 6 25 |
| | AUG. . | 27 5 4 | 27 5 44 | | ○ | 7 14 36 | 7 20 9 |
| | SEPT. . | 25 17 48 | 25 22 17 | | SEPT. . | 22 8 58 | 21 19 34 |
| | OCT. . | 25 6 32 | 25 13 57 | | OCT. . | 21 21 42 | 21 11 46 |
| | ○ | 9 0 54 | 8 13 40 | | NOV. . | 20 10 26 | 20 6 20 |
| | NOV. . | 23 19 16 | 24 4 14 | | DEC. . | 19 23 10 | 20 1 52 |
| | DEC. . | 23 8 0 | 23 16 50 | | | | |
| 481. B.A. 26 15 3 | JAN. . | 21 20 45 | 22 3 47 | 478. E. 27 8 30 | JAN. . | 18 11 55 | 18 20 45 |
| | FEB. . | 20 9 29 | 20 13 16 | | FEB. . | 17 0 39 | 17 13 27 |
| | MAR. . | 20 22 13 | 20 21 44 | | ○ | 3 19 1 | 3 14 11 |
| | APRIL | 19 10 57 | 19 5 56 | | MAR. . | 18 13 23 | 19 3 9 |
| | MAY . | 18 23 41 | 18 14 51 | | APRIL | 17 2 7 | 17 13 53 |
| | JUNE . | 17 12 25 | 17 1 24 | | MAY . | 16 14 51 | 16 22 18 |
| | JULY . | 17 1 9 | 16 14 20 | | JUNE . | 15 3 35 | 15 5 24 |
| | AUG. . | 15 13 53 | 15 5 45 | | JULY . | 14 16 19 | 14 12 19 |
| | SEPT. . | 14 2 37 | 13 23 9 | | AUG. . | 13 5 3 | 12 20 6 |
| | OCT. . | 13 15 21 | 13 17 28 | | ○ | 27 23 25 | 28 2 36 |
| | NOV. . | 12 4 5 | 12 11 22 | | SEPT. . | 11 17 47 | 11 5 40 |
| | DEC. . | 11 16 49 | 12 3 40 | | OCT. . | 11 6 31 | 10 17 41 |
| | | | | | NOV. . | 9 19 15 | 9 8 26 |
| | | | | | DEC. . | 9 7 59 | 9 1 35 |
| 480. G. 26 20 52 | JAN. . | 10 5 34 | 10 17 41 | 477: D.C. 26 14 19 | JAN. . | 7 20 43 | 7 20 9 |
| | FEB. . | 8 13 18 | 9 5 13 | | FEB. . | 6 9 27 | 6 14 47 |
| | MAR. . | 10 7 2 | 10 14 32 | | MAR. . | 6 22 11 | 7 8 4 |
| | ○ | 25 1 24 | 25 8 29 | | APRIL | 5 10 55 | 5 22 53 |
| | APRIL | 8 19 46 | 8 22 17 | | MAY . | 4 23 39 | 5 11 8 |
| | MAY . | 8 8 30 | 8 5 23 | | JUNE . | 3 12 23 | 3 20 54 |
| | JUNE . | 6 21 14 | 6 12 53 | | JULY . | 3 1 7 | 3 5 8 |
| | JULY . | 6 9 53 | 5 21 50 | | | 1 13 51 | 1 12 52 |
| | AUG. . | 4 22 42 | 4 9 17 | | AUG. . | 31 2 35 | 30 21 6 |
| | SEPT. . | 3 11 26 | 2 23 41 | | SEPT. . | 29 15 19 | 29 6 34 |
| | ○ | 18 5 43 | 18 6 59 | | OCT. . | 29 4 8 | 28 17 49 |
| | OCT. . | 8 0 10 | 2 16 54 | | NOV. . | 27 16 47 | 27 7 4 |
| | NOV. . | 1 12 54 | 1 11 54 | | DEC. . | 27 5 31 | 26 22 13 |
| | DEC. . | 1 1 38 | 1 7 12 | | | | |
| | | 30 14 22 | 31 1 11 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 476. B. March. d. h. m. 26 20 7 | | d. h. m. | d. h. m. | B.C. 473. F.E. March. d. h. m. 26 13 34 | | d. h. m. | d. h. m. |
| | ○ | { 10 23 54 | 11 10 36 | | JAN. . | 23 9 26 | 23 10 58 |
| | JAN. . | { 25 18 16 | 25 14 51 | | FEB. . | 21 22 10 | 21 20 38 |
| | FEB. . | 24 7 0 | 24 8 8 | | MAR. . | 22 10 54 | 22 6 11 |
| | MAR. . | 25 19 44 | 26 1 5 | | APRIL | 20 23 38 | 20 16 19 |
| | APRIL | 24 8 28 | 24 16 45 | | MAY . | 20 12 22 | 20 8 49 |
| | MAY . | 23 21 12 | 24 6 27 | | JUNE . | 19 1 6 | 18 17 11 |
| | JUNE . | 22 9 56 | 22 18 7 | | JULY . | 18 13 50 | 18 8 22 |
| | ○ | { 7 4 18 | 6 15 55 | | AUG. . | 17 2 34 | 17 0 53 |
| | JULY . | { 21 22 40 | 22 4 11 | | SEPT. . | 15 15 18 | 15 17 50 |
| | AUG. . | 20 11 24 | 20 13 26 | | OCT. . | { 15 4 2 | 15 10 19 |
| | SEPT. . | 19 0 8 | 18 22 43 | | ○ | { 29 22 24 | 29 10 56 |
| | OCT. . | 18 12 52 | 18 8 36 | | NOV. . | 18 16 46 | 14 1 33 |
| | NOV. . | 17 1 36 | 16 19 29 | | DEC. . | 18 5 30 | 18 15 e |
| | DEC. . | { 16 14 20 | 16 7 25 | | | | |
| | ○ | { 31 8 42 | 31 20 41 | 472. D. 26 19 23 | JAN. . | 11 18 15 | 12 2 53 |
| | JAN. . | 15 3 5 | 14 20 28 | | FEB. . | 10 6 59 | 10 12 54 |
| | FEB. . | 13 15 49 | 13 10 37 | | MAR. . | 11 19 43 | 11 21 36 |
| 475. A. 27 1 56 | MAR. . | 15 4 33 | 15 1 42 | | APRIL | { 10 8 27 | 10 5 37 |
| | APRIL | 13 17 17 | 13 17 24 | | ○ | { 25 2 49 | 25 13 17 |
| | MAY . | 13 6 1 | 13 9 1 | | MAY . | 9 21 11 | 9 18 52 |
| | JUNE . | { 11 18 45 | 11 23 59 | | JUNE . | 8 9 55 | 7 23 22 |
| | ○ | { 26 13 7 | 26 4 10 | | JULY . | 7 22 39 | 7 11 0 |
| | JULY . | 11 7 29 | 11 13 41 | | AUG. . | 6 11 23 | 6 1 13 |
| | AUG. . | 9 20 13 | 10 2 6 | | SEPT. . | 5 0 7 | 4 17 53 |
| | SEPT. . | 8 8 57 | 8 13 31 | | OCT. . | { 4 12 51 | 4 12 7 |
| | OCT. . | 7 21 41 | 8 0 24 | | ○ | { 19 7 13 | 19 0 13 |
| | NOV. . | 6 10 25 | 6 11 9 | | NOV. . | 8 1 35 | 8 6 34 |
| | DEC. . | { 5 23 9 | 5 21 59 | | DEC. . | 2 14 19 | 2 23 56 |
| | ○ | { 20 17 31 | 20 23 27 | 471. C. 27 1 12 | JAN. . | { 1 3 8 | 1 15 13 |
| 474. G. 27 7 45 | JAN. . | 4 11 53 | 4 8 56 | | ○ | { 30 15 47 | 31 8 55 |
| | FEB. . | 3 0 37 | 2 20 4 | | FEB. . | ... | ... |
| | MAR. . | 4 13 21 | 4 7 43 | | MAR. . | { 1 4 31 | 1 14 9 |
| | APRIL | 3 2 5 | 2 20 16 | | ○ | { 30 17 15 | 30 22 26 |
| | MAY . | 2 14 49 | 2 9 59 | | APRIL | { 14 11 37 | 14 14 53 |
| | JUNE ○ | { 1 3 33 | 1 0 49 | | MAY . | { 29 5 59 | 29 5 36 |
| | | { 15 21 55 | 15 20 53 | | JUNE . | 28 13 43 | 28 12 41 |
| | JULY . | 30 16 17 | 30 16 18 | | JULY . | 27 7 27 | 26 20 43 |
| | AUG. . | 30 5 1 | 30 7 46 | | AUG. . | 26 20 11 | 26 6 50 |
| | SEPT. . | 28 17 45 | 28 22 33 | | SEPT. . | 25 8 55 | 24 19 47 |
| | OCT. . | 27 6 29 | 27 12 36 | | ○ | { 23 21 39 | 23 11 46 |
| | NOV. . | 26 19 13 | 27 1 33 | | OCT. . | { 8 16 1 | 8 16 16 |
| | DEC. . | 25 7 57 | 25 13 33 | | NOV. . | { 23 10 23 | 23 6 8 |
| | | 24 20 41 | 25 0 40 | | DEC. . | 21 23 7 | 22 1 36 |
| | | | | | | 21 11 51 | 21 20 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 470. H. March. d. h. m. 27 7 0 | | d. h. m. | d. h. m. | B.C. 467. E. March. d. h. m. 27 0 26 | | d. h. m. | d. h. m. |
| | JAN. . | 20 0 36 | 20 13 19 | | JAN. . | { 16 15 46 | 16 10 24 |
| | FEB. . | 18 13 20 | 19 3 15 | | ○ | { 31 10 8 | 31 20 23 |
| | MAR. . | 20 2 4 | 20 14 11 | | FEB. . | 15 4 30 | 15 3 12 |
| | APRIL | 18 14 48 | 18 22 43 | | MAR. . | 16 17 14 | 16 20 13 |
| | MAY . | 18 3 32 | 18 5 46 | | APRIL | 15 5 58 | 15 12 29 |
| | JUNE . | 16 16 16 | 16 12 24 | | MAY . | 14 18 42 | 15 3 12 |
| | JULY . | 16 5 0 | 15 19 43 | | JUNE . | 13 7 26 | 13 15 58 |
| | AUG. . | 14 17 44 | 14 4 49 | | JULY . | { 12 20 10 | 13 2 56 |
| | SEPT. . | 13 6 28 | 12 16 32 | | ○ | { 27 14 32 | 27 1 34 |
| | OCT. . | 12 19 12 | 12 7 18 | | AUG. . | 11 8 54 | 11 12 44 |
| | NOV. . | 11 7 56 | 11 0 50 | | SEPT. . | 9 21 38 | 9 22 9 |
| | DEC. . | 10 20 40 | 10 20 4 | | OCT. . | 9 10 22 | 9 7 53 |
| | | | | | NOV. . | 7 23 6 | 7 18 22 |
| | | | | | DEC. . | 7 11 50 | 7 5 45 |
| 469. A.G. 26 12 48 | JAN. . | 9 9 24 | 9 15 23 | 466. D. 27 6 15 | JAN. . | 6 0 35 | 5 13 6 |
| | FEB. . | { 7 22 9 | 8 9 15 | | FEB. . | 4 13 19 | 4 7 25 |
| | ○ | { 22 16 31 | 22 12 54 | | MAR. . | 6 2 3 | 5 21 45 |
| | MAR. . | 8 10 53 | 9 0 26 | | APRIL | 4 14 47 | 4 12 56 |
| | APRIL | 6 23 37 | 7 12 33 | | MAY . | 4 3 31 | 4 4 32 |
| | MAY . | 6 12 21 | 6 22 0 | | JUNE . | 2 16 15 | 2 19 52 |
| | JUNE . | 5 1 5 | 5 5 38 | | JULY . | { 2 4 59 | 2 10 22 |
| | JULY . | 4 13 49 | 4 12 35 | | ○ | { 31 17 43 | 31 23 40 |
| | AUG. . | { 3 2 33 | 2 19 57 | | AUG. . | 30 6 27 | 30 11 49 |
| | ○ | { 17 20 55 | 17 22 18 | | SEPT. . | 28 19 11 | 28 23 11 |
| | SEPT. . | 1 15 17 | { 1 4 33 | | OCT. . | 28 7 55 | 28 10 11 |
| | ○ | { 1 4 1 | { 30 15 30 | | NOV. . | 26 20 39 | 26 21 3 |
| | OCT. . | { 30 16 45 | 30 4 55 | | ○ | { 11 15 1 | 11 17 46 |
| | NOV. . | 29 5 29 | 28 20 53 | | DEC. . | { 26 9 23 | 26 7 53 |
| | DEC. . | 23 18 13 | 23 14 45 | | | | |
| 468. F. 26 18 37 | JAN. . | 27 6 57 | 27 9 21 | 465. C.B. 26 12 4 | JAN. . | 24 22 7 | 24 18 44 |
| | ○ | { 11 1 19 | 11 4 26 | | FEB. . | 23 10 51 | 23 5 43 |
| | FEB. . | { 25 19 41 | 26 3 18 | | MAR. . | 23 23 25 | 23 17 33 |
| | MAR. . | 27 8 23 | 27 19 23 | | APRIL | 22 12 19 | 22 6 24 |
| | APRIL | 25 21 9 | 26 8 53 | | MAY . | 22 1 3 | 21 20 33 |
| | MAY . | 25 9 53 | 25 19 49 | | ○ | { 5 19 25 | 5 21 18 |
| | JUNE . | 23 22 37 | 24 4 49 | | JUNE . | { 20 13 47 | 20 11 44 |
| | JULY . | 23 11 21 | 23 12 50 | | JULY . | 20 2 31 | 20 3 26 |
| | ○ | { 7 5 43 | 6 22 23 | | AUG. . | 18 15 15 | 18 18 56 |
| | AUG. . | { 22 0 5 | 21 20 54 | | SEPT. . | 17 3 59 | 17 9 40 |
| | SEPT. . | 20 12 49 | 20 5 50 | | OCT. . | 16 16 43 | 16 23 24 |
| | OCT. . | 20 1 33 | 19 16 17 | | NOV. . | { 15 5 27 | 15 12 3 |
| | NOV. . | 18 14 17 | 18 4 32 | | ○ | { 29 23 49 | 29 17 18 |
| | DEC. . | 18 3 1 | 17 18 39 | | DEC. . | 14 18 11 | 14 23 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 464. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 461. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 26 17 53 | JAN. . | 13 6 56 | 13 10 18 | E.D. March. <i>d. h. m.</i> 26 11 19 | JAN. . | 10 22 5 | 11 9 14 |
| | FEB. . | 11 19 40 | 11 20 3 | | FEB. . | 9 10 50 | 10 0 38 |
| | MAR. . | 13 8 24 | 13 5 20 | | MAR. . | { 9 23 31 | 10 12 57 |
| | APRIL | 11 21 8 | 11 14 50 | | O | { 24 17 56 | 24 12 41 |
| | MAY . | { 11 9 52 | 11 1 20 | | APRIL | 8 12 18 | 8 22 30 |
| | O | { 26 4 14 | 26 13 6 | | MAY . | 8 1 2 | 8 6 6 |
| | JUNE . | 9 22 36 | 9 13 36 | | JUNE . | 6 13 46 | 6 12 47 |
| | JULY . | 9 11 20 | 9 3 53 | | JULY . | 6 2 30 | 5 19 41 |
| | AUG. . | 8 0 4 | 7 19 57 | | AUG. . | 4 15 14 | 4 3 50 |
| | SEPT. . | 6 12 48 | 6 13 2 | | SEPT. . | { 3 3 58 | 2 14 15 |
| | OCT. . | 6 1 32 | 6 6 7 | | O | { 17 22 20 | 18 4 8 |
| | NOV. . | { 4 14 16 | 4 22 19 | | OCT. . | 2 16 42 | { 2 3 33 |
| | O | { 19 8 33 | 18 22 12 | | NOV. . | { 1 5 26 | { 31 19 49 |
| | DEC. . | 4 3 0 | 4 12 54 | | DEC. . | { 30 18 10 | 30 14 20 |
| 463. | | | | 460. | | | |
| G. 26 23 41 | JAN. . | 2 15 44 | 3 1 34 | C. | JAN. . | 28 19 38 | 29 4 27 |
| | FEB. . | 1 4 23 | 1 12 21 | | FEB. . | 27 8 22 | 27 20 57 |
| | MAR. . | 2 17 12 | 2 21 27 | | O | { 14 2 44 | 13 21 57 |
| | APRIL | { 1 5 56 | 1 5 30 | 26 17 8 | MAR. . | { 28 21 6 | 29 10 32 |
| | MAY . | { 30 18 40 | 30 13 21 | | APRIL | 27 9 50 | 27 21 11 |
| | JUNE . | 30 7 24 | 29 21 57 | | MAY . | 26 22 34 | 27 5 37 |
| | JULY . | 23 20 8 | 23 8 21 | | JUNE . | 25 11 18 | 25 12 52 |
| | AUG. . | 28 8 52 | 27 21 16 | | JULY . | 25 0 2 | 24 20 0 |
| | SEPT. . | 26 21 36 | 26 12 53 | | AUG. . | 23 12 46 | 23 4 4 |
| | OCT. . | 25 10 20 | 25 6 36 | | O | { 7 7 8 | 7 10 1 |
| | NOV. . | 24 23 4 | 25 1 18 | | SEPT. . | { 22 1 30 | 21 13 54 |
| | DEC. . | 23 11 48 | 23 19 33 | | OCT. . | 21 14 14 | 21 2 5 |
| | | 23 0 32 | 23 12 4 | | NOV. . | 20 2 58 | 19 16 47 |
| 462. | | | | 459. | | | |
| F. 27 5 30 | JAN. . | 21 13 17 | 22 2 5 | B. | JAN. . | 18 4 27 | 18 3 55 |
| | FEB. . | 20 2 1 | 20 13 24 | | FEB. . | 16 17 11 | 16 22 11 |
| | MAR. . | 21 14 45 | 21 22 27 | 26 22 57 | MAR. . | 18 5 55 | 18 15 10 |
| | APRIL | 20 3 29 | 20 5 55 | | APRIL | 16 18 39 | 17 5 56 |
| | MAY . | 19 16 13 | 19 12 48 | | MAY . | 16 7 23 | 16 18 8 |
| | JUNE . | 18 4 57 | 17 20 10 | | JUNE . | 14 20 7 | 15 4 6 |
| | JULY . | 17 17 41 | 17 5 8 | | JULY . | 14 8 51 | 14 12 39 |
| | AUG. . | 16 6 25 | 15 16 38 | | AUG. . | 12 21 35 | 12 20 43 |
| | SEPT. . | { 14 19 9 | 14 7 13 | | SEPT. . | 11 10 19 | 11 5 23 |
| | O | { 29 13 31 | 29 15 24 | | OCT. . | 10 23 8 | 10 15 10 |
| | OCT. . | 14 7 53 | 14 0 36 | | NOV. . | 9 11 47 | 9 2 34 |
| | NOV. . | 12 20 37 | 12 19 48 | | DEC. . | 9 0 31 | 8 13 41 |
| | DEC. . | 12 9 21 | 12 15 14 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 458. A. March. <i>d. h. m.</i> 27 4 46 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 455. D. March. <i>d. h. m.</i> 26 22 12 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 7 13 16 | 7 6 28 | | JAN. . | 4 4 26 | 4 9 33 |
| | ○ | { 22 7 33 | 22 19 8 | | FEB. . | 2 17 10 | 2 19 31 |
| | FEB. . | 6 2 0 | 5 22 33 | | MAR. . | 4 5 54 | 4 4 45 |
| | MAR. . | 7 14 44 | 7 15 19 | | APRIL | 2 13 33 | 2 13 47 |
| | APRIL | 6 3 28 | 6 7 52 | | MAY . | { 2 7 22 | 1 23 28 |
| | MAY . | 5 16 12 | 5 23 22 | | | { 31 20 6 | 31 10 37 |
| | JUNE . | 4 4 56 | 4 13 11 | | JUNE . | 30 8 50 | 29 23 50 |
| | JULY . | { 3 17 40 | 4 1 10 | | JULY . | 29 21 34 | 29 15 8 |
| | ○ | { 18 12 2 | 17 23 5 | | AUG. . | 28 10 18 | 28 7 59 |
| | AUG. . | { 2 6 24 | 2 11 43 | | SEPT. . | 26 28 2 | 27 1 27 |
| | | { 31 19 8 | 31 21 29 | | OCT. . | 26 11 46 | 26 18 23 |
| | SEPT. . | 30 7 52 | 30 7 13 | | ○ | { 10 6 8 | 9 19 33 |
| | OCT. . | 29 20 36 | 29 17 28 | | NOV. . | { 25 0 30 | 25 10 6 |
| | NOV. . | 28 9 20 | 28 4 24 | | DEC. . | 24 13 14 | 24 23 50 |
| | DEC. . | 27 22 4 | 27 16 9 | 454. C. | JAN. . | 23 1 58 | 23 11 27 |
| | ○ | { 11 16 26 | 12 4 55 | | FEB. . | 21 14 42 | 21 21 12 |
| 457. G.F. | JAN. . | { 26 10 48 | 26 4 44 | 27 4 1 | MAR. . | 23 3 26 | 23 5 31 |
| 26 10 34 | FEB. . | 24 23 32 | 24 18 16 | | APRIL | 21 16 10 | 21 13 10 |
| | MAR. . | 25 12 16 | 25 8 45 | | ○ | { 6 10 32 | 6 20 1 |
| | APRIL | 24 1 0 | 24 0 0 | | MAY . | { 21 4 54 | 20 21 6 |
| | MAY . | 23 13 44 | 23 15 28 | | JUNE . | 19 17 38 | 19 6 24 |
| | JUNE . | 22 2 28 | 22 6 33 | | JULY . | 19 6 22 | 18 17 59 |
| | ○ | { 6 20 50 | 6 11 36 | | AUG. . | 17 19 6 | 17 8 20 |
| | JULY . | { 21 15 12 | 21 20 39 | | SEPT. . | 16 7 50 | 16 1 15 |
| | AUG. . | 20 3 56 | 20 9 39 | | OCT. . | { 15 20 34 | 15 19 48 |
| | SEPT. . | 18 16 40 | 18 21 39 | | ○ | { 30 14 56 | 30 9 5 |
| | OCT. . | 18 5 24 | 18 9 1 | | NOV. . | 14 9 18 | 14 14 37 |
| | NOV. . | 16 18 8 | 16 20 6 | | DEC. . | 13 22 2 | 14 8 14 |
| | DEC. . | { 16 6 52 | 16 6 56 | 453. B.A. | JAN. . | 12 10 47 | 12 23 36 |
| | ○ | { 31 1 14 | 31 7 21 | 26 9 50 | FEB. . | 10 23 31 | 11 12 10 |
| 456. E. | JAN. . | 14 19 37 | 14 17 39 | | MAR. . | 11 12 15 | 11 22 10 |
| 26 16 23 | FEB. . | 13 8 21 | 13 4 18 | | APRIL | { 10 0 59 | 10 6 10 |
| | MAR. . | 14 21 5 | 14 15 22 | | ○ | { 24 19 21 | 24 21 32 |
| | APRIL | 13 9 49 | 13 3 21 | | MAY . | 9 13 43 | 9 13 7 |
| | MAY . | 12 22 33 | 12 16 33 | | JUNE . | 8 2 27 | 7 20 3 |
| | JUNE . | { 11 11 17 | 11 7 17 | | JULY . | 7 15 11 | 7 4 4 |
| | ○ | { 26 5 39 | 26 4 24 | | AUG. . | 6 3 55 | 5 14 14 |
| | JULY . | 11 0 1 | 10 22 52 | | SEPT. . | 4 16 39 | 4 3 19 |
| | AUG. . | 9 12 45 | 9 14 45 | | OCT. . | { 4 5 23 | 3 19 28 |
| | SEPT. . | 8 1 29 | 8 6 12 | | ○ | { 18 23 45 | 19 0 59 |
| | OCT. . | 7 14 13 | 7 20 46 | | NOV. . | 2 18 7 | 2 14 1 |
| | NOV. . | 6 2 57 | 6 10 12 | | DEC. . | { 2 6 51 | 2 9 35 |
| | DEC. . | 5 15 41 | 5 22 27 | | | { 31 19 35 | ... |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 452. G. March. <i>d. h. m.</i> 26 15 39 | JAN. . | { ... | 1 4 29 | B.C. 449. D.C. March. <i>d. h. m.</i> 26 9 5 | JAN. . | 27 23 29 | 27 18 19 |
| | FEB. . | { 30 8 19 | 30 21 16 | | O | { 11 17 51 | 12 4 48 |
| | MAR. . | 28 21 4 | ... | | FEB. . | { 26 12 13 | 26 10 33 |
| | APRIL | 30 9 48 | { 1 11 4 | | MAR. . | 27 0 57 | 27 3 4 |
| | MAY . | 28 22 32 | { 30 21 50 | | APRIL | 25 13 41 | 25 19 5 |
| | JUNE . | 28 11 16 | 29 6 14 | | MAY . | 25 2 25 | 25 9 48 |
| | JULY . | 27 0 0 | 28 13 13 | | JUNE . | 23 15 9 | 23 22 49 |
| | AUG. . | 26 12 44 | 26 3 21 | | JULY . | 23 8 53 | 23 10 15 |
| | SEPT. . | 25 1 28 | 24 12 38 | | O | { 6 22 15 | 6 8 48 |
| | OCT. . | 23 14 12 | 23 0 32 | | AUG. . | { 21 16 37 | 21 20 34 |
| | NOV. . | 23 2 56 | 22 15 25 | | SEPT. . | 20 5 21 | 20 6 30 |
| | DEC. . | 21 15 40 | 21 8 55 | | OCT. . | 19 18 5 | 19 16 38 |
| | | 21 4 24 | 21 4 0 | | NOV. . | 18 6 49 | 18 3 18 |
| 451. F. 26 21 27 | JAN. . | 19 17 8 | 19 23 10 | 448. B. 26 14 54 | JAN. . | 16 8 18 | 16 2 33 |
| | FEB. . | 18 5 52 | 18 16 46 | | FEB. . | 14 21 2 | 14 15 19 |
| | O | { 5 0 14 | 4 20 54 | | MAR. . | 16 9 46 | 16 5 2 |
| | MAR. . | { 19 18 36 | 20 7 46 | | APRIL | 14 22 30 | 14 19 41 |
| | APRIL | 18 7 20 | 18 19 48 | | MAY . | 14 11 14 | 14 10 59 |
| | MAY . | 17 20 4 | 18 5 16 | | JUNE . | 12 23 58 | 13 2 21 |
| | JUNE . | 16 8 48 | 16 13 1 | | JULY . | 12 12 42 | 12 17 9 |
| | JULY . | 15 21 32 | 15 20 11 | | AUG. . | 11 1 26 | 11 6 57 |
| | AUG. . | { 14 10 16 | 14 8 49 | | SEPT. . | 9 14 10 | 9 19 42 |
| | O | { 29 4 38 | 29 5 24 | | OCT. . | 9 2 54 | 9 7 38 |
| | SEPT. . | 12 23 0 | 12 12 51 | | NOV. . | 7 15 38 | 7 19 1 |
| | OCT. . | 12 11 44 | 11 23 54 | | DEC. . | { 7 4 22 | 7 6 2 |
| | NOV. . | 11 0 28 | 10 13 23 | | O | { 21 22 44 | 22 1 40 |
| 450. E. 27 3 16 | DEC. . | 10 13 12 | 10 5 9 | 447. A. 26 20 43 | JAN. . | 5 17 7 | 5 16 42 |
| | JAN. . | 9 1 57 | 8 22 41 | | FEB. . | 4 5 51 | 4 8 9 |
| | FEB. . | { 7 14 41 | 7 16 52 | | MAR. . | 5 18 35 | 5 18 42 |
| | O | { 22 9 8 | 22 12 45 | | APRIL | 4 7 19 | 4 0 51 |
| | MAR. . | 9 3 25 | 9 10 27 | | MAY . | 3 20 8 | 3 13 18 |
| | APRIL | 7 16 9 | 8 2 13 | | JUNE . | { 2 8 47 | 2 8 4 |
| | MAY . | 7 4 53 | 7 15 43 | | O | { 17 8 9 | 17 4 45 |
| | JUNE . | 5 17 37 | 6 2 53 | | JULY . | { 1 21 31 | 1 18 16 |
| | JULY . | 5 6 21 | 5 12 10 | | | { 31 10 15 | 31 10 14 |
| | AUG. . | { 3 19 5 | 3 20 34 | | AUG. . | 29 22 59 | 30 2 14 |
| | O | { 18 13 27 | 18 5 24 | | SEPT. . | 28 11 43 | 28 17 35 |
| | SEPT. . | 2 7 49 | 2 5 3 | | OCT. . | 28 0 27 | 28 7 53 |
| | OCT. . | { 1 20 33 | 1 14 22 | | NOV. . | 26 13 11 | 26 20 53 |
| | NOV. . | { 31 9 17 | 31 1 2 | | O | { 11 7 33 | 11 1 21 |
| | DEC. . | 29 22 1 | 29 13 16 | | DEC. . | { 26 1 55 | 26 8 34 |
| | | 29 10 45 | 29 3 5 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 446. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 443. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. March. <i>d. h. m.</i> 27 2 31 | JAN. . | 24 14 30 | 21 18 57 | G. March. <i>d. h. m.</i> 26 19 58 | JAN. . | 21 5 49 | 21 17 10 |
| | FEB. . | 23 3 23 | 28 4 19 | | FEB. . | 19 18 33 | 20 8 26 |
| | MAR. . | 21 16 7 | 24 13 8 | | MAR. . | 21 7 17 | 21 20 36 |
| | APRIL . | 23 4 51 | 22 22 8 | | ○ | { 5 1 39 | 4 19 48 |
| | MAY . | 22 17 35 | 22 8 16 | | APRIL | { 19 20 1 | 20 6 1 |
| | ○ | { 6 11 57 | 6 20 18 | | MAY . | 19 8 45 | 19 13 32 |
| | JUNE . | { 21 6 19 | 20 20 19 | | JUNE . | 17 21 29 | 17 20 14 |
| | JULY . | 20 19 3 | 20 10 36 | | JULY . | 17 10 13 | 17 3 15 |
| | AUG. . | 19 7 47 | 19 2 55 | | AUG. . | 15 22 57 | 15 11 37 |
| | SEPT. . | 17 20 31 | 17 20 21 | | SEPT. . | { 14 11 41 | 13 22 15 |
| | OCT. . | 17 9 15 | 17 14 2 | | ○ | { 29 6 3 | 29 12 13 |
| | NOV. . | { 15 21 59 | 16 6 40 | | OCT. . | 14 0 25 | 13 11 40 |
| | ○ | { 30 16 21 | 30 6 45 | | NOV. . | 12 13 9 | 12 3 57 |
| | DEC. . | 15 10 43 | 15 21 31 | | DEC. . | 12 1 53 | 11 22 22 |
| 445. | JAN. . | 18 23 23 | 14 10 13 | 442. | JAN. . | 10 14 38 | 10 17 34 |
| F.E. 26 8 20 | FEB. . | 12 12 12 | 12 20 45 | B. 27 1 47 | FEB. . | 9 3 22 | 9 11 59 |
| | MAR. . | 13 0 56 | 13 5 31 | | MAR. . | { 10 16 6 | 11 4 17 |
| | APRIL . | 11 13 40 | 11 13 13 | | ○ | { 25 10 23 | 25 5 33 |
| | MAY . | { 11 2 24 | 10 20 43 | | APRIL | 9 4 50 | 9 17 45 |
| | ○ | { 25 20 46 | 26 5 55 | | MAY . | 8 17 34 | 9 4 25 |
| | JUNE . | 9 15 8 | 9 5 6 | | JUNE . | 7 6 18 | 7 12 56 |
| | JULY . | 9 3 52 | 8 15 24 | | JULY . | 6 19 2 | 6 20 22 |
| | AUG. . | 7 16 36 | 7 4 22 | | AUG. . | 5 7 46 | 5 3 43 |
| | SEPT. . | 6 5 20 | 5 20 10 | | SEPT. . | { 3 20 30 | 3 12 13 |
| | OCT. . | 5 18 4 | 5 14 12 | | ○ | { 18 14 52 | 18 17 31 |
| | NOV. . | 4 6 43 | 4 9 14 | | OCT. . | 3 9 14 | 2 22 19 |
| | DEC. . | 3 19 32 | 4 3 46 | | NOV. . | 1 21 58 | 1 10 36 |
| 444. | JAN. . | { 2 8 17 | 2 20 21 | 441. | JAN. . | 29 12 11 | 23 11 35 |
| D. 26 14 9 | FEB. . | { 31 21 1 | ... | A.G. 26 7 36 | FEB. . | 23 0 55 | 23 5 25 |
| | MAR. . | { 2 9 45 | 2 21 23 | | MAR. . | 28 13 39 | 23 22 6 |
| | APRIL | 30 11 13 | { 1 6 15 | | APRIL | 27 2 23 | 27 12 47 |
| | MAY . | 29 23 57 | 29 20 13 | | MAY . | 26 15 7 | 27 1 5 |
| | JUNE . | 23 12 41 | 23 3 33 | | JUNE . | 25 3 51 | 25 11 19 |
| | JULY . | 23 1 25 | 27 12 33 | | JULY . | 24 16 35 | 24 20 14 |
| | AUG. . | 26 14 9 | 26 0 12 | | AUG. . | 23 5 19 | 23 4 47 |
| | SEPT. . | 25 2 53 | 24 14 54 | | SEPT. . | 21 18 3 | 21 13 49 |
| | ○ | { 9 21 15 | 9 23 59 | | OCT. . | 21 6 47 | 20 23 54 |
| | OCT. . | { 24 15 37 | 24 8 27 | | NOV. . | 19 19 31 | 19 11 22 |
| | NOV. . | 23 4 21 | 23 3 45 | | DEC. . | 19 8 15 | 19 0 16 |
| | DEC. . | 22 17 5 | 22 23 11 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 440. F. March. <i>d. h. m.</i> 26 13 24 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 437. C.B. March. <i>d. h. m.</i> 26 6 51 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 20 59 | 17 14 37 | | JAN. . | 15 12 9 | 15 18 16 |
| | ○ | { 1 15 21 | 2 3 29 | | FEB. . | 14 0 53 | 14 3 57 |
| | FEB. . | { 16 9 43 | 16 6 7 | | MAR. . | 14 13 37 | 14 12 43 |
| | MAR. . | 17 22 27 | 17 22 19 | | APRIL | 13 2 21 | 12 21 18 |
| | APRIL | 16 11 11 | 16 14 31 | | MAY . | 12 15 5 | 12 6 31 |
| | MAY . | 15 23 55 | 16 5 55 | | JUNE . | 11 3 49 | 10 17 26 |
| | JUNE . | 14 12 39 | 14 19 54 | | JULY . | 10 16 33 | 10 6 34 |
| | JULY . | { 14 1 23 | 14 8 16 | | AUG. . | 9 5 17 | 8 22 0 |
| | ○ | { 28 19 45 | 23 6 20 | | SEPT. . | 7 18 1 | 7 15 12 |
| | AUG. . | 12 14 7 | 12 19 19 | | OCT. . | 7 6 45 | 7 9 9 |
| | SEPT. . | 11 2 51 | 11 5 33 | | NOV. . | { 5 19 29 | 6 2 39 |
| | OCT. . | 10 15 35 | 10 15 50 | | ○ | { 20 13 51 | 20 4 13 |
| 439. E. 26 19 13 | NOV. . | 9 4 19 | 9 2 22 | 436. A. 26 12 40 | DEC. . | 5 8 18 | 5 18 37 |
| | DEC. . | 8 17 3 | 8 13 19 | | JAN. . | 3 20 58 | 4 8 27 |
| | JAN. . | { 7 5 43 | 7 0 49 | | FEB. . | 2 9 42 | 2 19 57 |
| | ○ | { 22 0 10 | 22 13 0 | | MAR. . | 3 22 23 | 4 5 23 |
| | FEB. . | 5 18 32 | 5 12 54 | | APRIL | 2 11 10 | 2 13 20 |
| | MAR. . | 7 7 16 | 7 1 49 | | MAY ○ | { 1 23 54 | 1 20 40 |
| | APRIL | 5 20 0 | 5 15 44 | | | { 16 18 16 | 17 2 42 |
| | MAY . | 5 8 41 | 5 6 34 | | | { 31 12 38 | 31 4 21 |
| | JUNE . | 3 21 28 | 3 21 56 | | JUNE . | 30 1 22 | 29 13 30 |
| | JULY . | { 3 10 12 | 3 13 10 | | JULY . | 23 14 6 | 29 1 6 |
| | ○ | { 18 4 34 | 17 19 8 | | AUG. . | 23 2 50 | 27 15 34 |
| | AUG. . | { 1 22 56 | 2 3 43 | | SEPT. . | 26 15 34 | 26 8 44 |
| | | { 31 11 40 | 31 17 18 | | OCT. . | 26 4 18 | 26 3 36 |
| 438. D. 27 1 2 | SEPT. . | 30 0 24 | 30 5 54 | 435. G. 26 18 29 | ○ | { 9 22 40 | 9 18 0 |
| | OCT. . | 29 13 8 | 29 17 46 | | NOV. . | { 24 17 2 | 24 22 43 |
| | NOV. . | 28 1 52 | 28 5 3 | | DEC. . | 24 5 46 | 24 16 30 |
| | DEC. . | 27 14 36 | 27 15 51 | | JAN. . | 22 18 30 | 23 7 50 |
| | ○ | { 11 8 58 | 11 15 11 | | FEB. . | 21 7 14 | 21 20 15 |
| | JAN. . | { 26 3 21 | 26 2 14 | | MAR. . | 22 19 58 | 23 6 1 |
| | FEB. . | 24 16 5 | 24 12 25 | | APRIL | 21 8 42 | 21 13 48 |
| | MAR. . | 26 4 49 | 25 22 55 | | ○ | { 6 3 4 | 6 4 2 |
| | APRIL | 24 17 33 | 24 10 21 | | MAY . | { 20 21 26 | 20 20 33 |
| | MAY . | 24 6 17 | 23 23 16 | | JUNE . | 19 10 10 | 19 3 25 |
| | JUNE . | 22 19 1 | 22 13 48 | | JULY . | 18 22 54 | 18 11 29 |
| | ○ | { 7 13 23 | 7 11 57 | | AUG. . | 17 11 38 | 16 21 46 |
| | JULY . | { 22 7 45 | 22 5 33 | | SEPT. . | 16 0 22 | 15 11 0 |
| 437. C.B. March. <i>d. h. m.</i> 26 6 51 | AUG. . | 20 20 29 | 20 21 51 | | OCT. . | { 15 13 6 | 15 3 17 |
| | SEPT. . | 19 9 13 | 19 13 54 | | ○ | { 30 7 28 | 30 9 46 |
| | OCT. . | 18 21 57 | 19 5 2 | | NOV. . | 14 1 50 | 13 21 57 |
| | NOV. . | 17 10 41 | 17 18 54 | | DEC. . | 13 14 34 | 13 17 33 |
| | DEC. . | 16 23 25 | 17 7 18 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 434. F. March. <i>d. h. m.</i> 27 0 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 431. B. March. <i>d. h. m.</i> 26 17 44 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 12 3 19 | 12 12 25 | | JAN. . | 8 18 29 | 8 11 27 |
| | FEB. . | 10 16 3 | 11 5 4 | | FEB. . | 7 7 13 | 7 2 9 |
| | MAR. . | 12 4 47 | 12 18 42 | | ○ | 22 1 35 | 22 12 55 |
| | APRIL | 10 17 31 | 11 5 21 | | MAR. . | 8 19 57 | 8 17 47 |
| | MAY . | 10 6 15 | 10 13 39 | | APRIL | 7 8 41 | 7 9 51 |
| | JUNE . | 8 18 59 | 8 20 38 | | MAY . | 6 21 25 | 7 1 39 |
| | JULY . | 8 7 43 | 8 3 25 | | JUNE . | 5 10 9 | 5 16 24 |
| | AUG. . | 6 20 27 | 6 11 6 | | JULY . | 4 22 53 | 5 5 45 |
| | SEPT. . | 5 9 11 | 4 20 36 | | AUG. . | 3 11 37 | 3 17 39 |
| | OCT. . | 4 21 55 | 4 8 41 | | ○ | 18 5 59 | 17 16 12 |
| | NOV. . | 3 10 39 | 2 23 36 | | SEPT. . | 2 0 21 | 2 4 31 |
| | DEC. . | 2 23 23 | 2 17 1 | | OCT. . | 1 13 5 | 1 14 59 |
| | | | | | ○ | 31 1 49 | 31 1 28 |
| | | | | | NOV. . | 29 14 33 | 29 12 15 |
| | | | | | DEC. . | 29 3 17 | 28 23 23 |
| 433. E.D. | JAN. . | 1 12 8 | 1 11 55 | | | | |
| | FEB. . | 31 0 52 | 31 6 46 | | | | |
| | ○ | 15 7 58 | 15 4 48 | 430. A. | JAN. . | 27 16 2 | 27 10 57 |
| 26 6 6 | MAR. . | 30 2 20 | 30 14 58 | 26 23 33 | FEB. . | 26 4 46 | 25 23 8 |
| | APRIL | 28 15 4 | 29 2 58 | | MAR. . | 27 17 30 | 27 12 13 |
| | MAY . | 28 3 48 | 28 12 30 | | APRIL | 26 6 14 | 26 2 24 |
| | JUNE . | 26 16 32 | 26 20 26 | | MAY . | 25 18 58 | 25 17 27 |
| | JULY . | 26 5 16 | 26 3 54 | | JUNE . | 24 7 42 | 24 8 51 |
| | AUG. . | 24 18 0 | 24 11 53 | | JULY . | 23 20 26 | 24 0 0 |
| | SEPT. . | 23 6 44 | 22 21 13 | | AUG. . | 22 9 10 | 22 14 21 |
| | OCT. . | 22 19 28 | 22 8 27 | | SEPT. . | 20 21 54 | 21 3 44 |
| | NOV. . | 21 8 12 | 20 21 54 | | OCT. . | 20 10 33 | 20 16 12 |
| | DEC. . | 20 20 56 | 20 13 26 | | NOV. . | 18 23 22 | 19 3 55 |
| | | | | | DEC. . | 18 12 6 | 18 14 59 |
| 432. C. | JAN. . | 19 9 40 | 19 6 31 | | ○ | 2 6 28 | 2 9 33 |
| | FEB. . | 17 22 24 | 18 0 13 | 429. G.F. | JAN. . | 17 0 50 | 17 1 26 |
| | ○ | 4 16 46 | 4 20 55 | 26 5 22 | FEB. . | 15 13 34 | 15 11 27 |
| 23 11 55 | MAR. . | 19 11 8 | 19 17 26 | | MAR. . | 16 2 18 | 15 21 23 |
| | APRIL | 17 23 52 | 18 9 6 | | APRIL | 14 15 2 | 14 8 3 |
| | MAY . | 17 12 36 | 17 22 36 | | MAY . | 14 3 46 | 13 19 59 |
| | JUNE . | 16 1 20 | 16 9 55 | | JUNE . | 12 16 30 | 12 9 36 |
| | JULY . | 15 14 4 | 15 19 35 | | ○ | 27 10 52 | 27 12 13 |
| | AUG. . | 14 2 48 | 14 4 25 | | JULY . | 12 5 14 | 12 0 50 |
| | ○ | 28 21 10 | 28 12 31 | | AUG. . | 10 17 58 | 10 17 8 |
| | SEPT. . | 12 15 32 | 12 13 21 | | SEPT. . | 9 6 42 | 9 9 39 |
| | OCT. . | 12 4 16 | 11 23 2 | | OCT. . | 8 19 26 | 9 1 37 |
| | NOV. . | 10 17 0 | 10 9 51 | | NOV. . | 7 8 10 | 7 16 24 |
| | DEC. . | 10 5 44 | 9 21 59 | | DEC. . | 6 20 54 | 7 5 41 |
| | | | | | ○ | 21 15 16 | 21 9 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 428. E. March. <i>d. h. m.</i> 26 11 10 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 425. B.A. March. <i>d. h. m.</i> 26 4 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 5 9 39 | 5 17 22 | | JAN. . | 3 0 49 | 3 7 8 |
| | FEB. . | 3 22 23 | 4 3 31 | | FEB. . | 1 13 33 | 2 0 59 |
| | MAR. . | 5 11 7 | 5 12 29 | | MAR. . | { 2 2 17 | 2 16 5 |
| | APRIL | 3 23 51 | 3 20 49 | | | { 31 15 1 | { 1 4 7 |
| | MAY . | 3 12 35 | 3 5 25 | | ○ | { 15 9 23 | { 15 2 51 |
| | JUNE . | { 2 1 19 | 1 15 13 | | APRIL | { 30 3 45 | { 30 18 25 |
| | ○ | { 16 19 41 | 17 3 30 | | MAY . | 29 16 29 | 29 20 57 |
| | JULY . | { 1 14 3 | 1 3 6 | | JUNE . | 28 5 13 | 28 3 45 |
| | | { 31 2 47 | 30 17 27 | | JULY . | 27 17 57 | 27 10 58 |
| | AUG. . | 29 15 31 | 29 10 1 | | AUG. . | 26 6 41 | 25 19 35 |
| | SEPT. . | 28 4 15 | 28 3 57 | | SEPT. . | 24 19 25 | 24 6 24 |
| | OCT. . | 27 16 59 | 27 22 3 | | ○ | { 9 13 47 | 9 20 26 |
| | NOV. . | 26 5 43 | 26 15 3 | | OCT. . | { 24 8 9 | 23 19 56 |
| | ○ | { 11 0 5 | 10 15 21 | | NOV. . | 22 20 53 | 22 12 9 |
| | DEC. . | { 25 13 27 | 26 6 6 | | DEC. . | 22 9 37 | 22 6 21 |
| 427 D. 26 16 59 | JAN. . | 24 7 12 | 24 18 43 | 424. G. 26 10 26 | JAN. . | 20 22 22 | 21 1 16 |
| | FEB. . | 22 19 56 | 23 5 1 | | FEB. . | 19 11 6 | 19 19 23 |
| | MAR. . | 24 8 40 | 24 13 23 | | MAR. . | 20 23 50 | 21 11 28 |
| | APRIL | 22 21 24 | 22 20 49 | | ○ | { 4 13 12 | 4 13 14 |
| | MAY . | 22 10 8 | 22 4 4 | | APRIL | { 19 12 34 | 20 0 51 |
| | ○ | { 6 4 30 | 6 12 40 | | MAY . | 19 1 13 | 19 11 33 |
| | JUNE . | { 20 22 52 | 20 12 17 | | JUNE . | 17 14 2 | 17 20 16 |
| | JULY . | 20 11 36 | 19 22 33 | | JULY . | 17 2 46 | 17 3 58 |
| | AUG. . | 19 0 20 | 18 11 36 | | AUG. . | 15 15 30 | 15 11 46 |
| | SEPT. . | 17 13 4 | 17 3 36 | | SEPT. . | { 14 4 14 | 13 20 30 |
| | OCT. . | 17 1 43 | 16 21 55 | | ○ | { 28 22 36 | 29 1 9 |
| | NOV. . | 15 14 32 | 15 17 13 | | OCT. . | 13 16 53 | 13 6 51 |
| | DEC. . | 15 3 16 | 15 11 56 | | NOV. . | 12 5 42 | 11 19 13 |
| | | | | | DEC. . | 11 18 26 | 11 9 33 |
| 426. C. 26 22 48 | JAN. . | 13 16 0 | 14 4 36 | 423. F. 26 16 15 | JAN. . | 10 7 10 | 10 1 50 |
| | FEB. . | 12 4 44 | 12 18 26 | | FEB. . | 8 19 54 | 8 19 7 |
| | MAR. . | 13 17 28 | 14 5 21 | | MAR. . | 10 8 38 | 10 12 28 |
| | APRIL | 12 6 12 | 12 13 55 | | APRIL | 8 21 22 | 9 4 54 |
| | MAY . | 11 18 56 | 11 20 58 | | MAY . | 8 10 6 | 8 19 31 |
| | JUNE . | 10 7 40 | 10 3 33 | | JUNE . | 6 22 50 | 7 7 59 |
| | JULY . | 9 20 24 | 9 10 58 | | JULY . | 6 11 34 | 6 18 32 |
| | AUG. . | 8 9 8 | 7 20 5 | | AUG. . | 5 0 18 | 5 3 54 |
| | SEPT. . | 6 21 52 | 6 7 53 | | SEPT. . | 3 13 2 | 3 12 55 |
| | OCT. . | { 6 10 36 | 5 22 44 | | OCT. . | 3 1 46 | 2 22 22 |
| | ○ | { 21 4 58 | 21 8 39 | | NOV. . | 1 14 30 | { 1 8 42 |
| | NOV. . | 4 23 20 | 4 16 24 | | DEC. . | { 1 3 14 | { 30 20 11 |
| | DEC. . | 4 12 4 | 4 11 43 | | | { 30 15 58 | 30 8 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 422. E. March. d. h. m. 26 22 3 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 419. A. March. d. h. m. 26 15 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 29 4 43 | 28 22 40 | | JAN. . | 25 19 53 | 26 2 55 |
| | ○ | 12 23 5 | 13 11 44 | | FEB. . | 24 8 37 | 24 12 15 |
| | FEB. . | 27 17 27 | 27 18 33 | | MAR. . | 25 21 21 | 25 20 36 |
| | MAR. . | 29 6 11 | 29 5 15 | | APRIL | 24 10 5 | 24 4 44 |
| | APRIL | 27 18 55 | 27 21 6 | | MAY . | 23 22 49 | 23 18 39 |
| | MAY . | 27 7 39 | 27 12 27 | | JUNE . | 22 11 33 | 22 0 20 |
| | JUNE . | 25 20 23 | 26 2 39 | | JULY . | 22 0 17 | 21 13 25 |
| | JULY . | 25 9 7 | 25 15 27 | | AUG. . | 20 13 1 | 20 5 2 |
| | ○ | 9 3 29 | 8 18 45 | | SEPT. . | 19 1 45 | 18 22 35 |
| | AUG. . | 23 21 51 | 24 3 4 | | OCT. . | 18 14 29 | 18 16 59 |
| | SEPT. . | 22 10 35 | 22 13 57 | | NOV. . | 17 3 13 | 17 10 53 |
| | OCT. . | 21 23 19 | 22 0 31 | | ○ | 1 21 35 | 1 12 56 |
| | NOV. . | 20 12 3 | 20 11 19 | | DEC. . | 16 15 57 | 17 3 5 |
| | DEC. . | 20 0 47 | 19 22 14 | | | | |
| 421. D.C. 26 3 52 | JAN. . | 18 13 31 | 18 9 23 | 418. G. 26 21 19 | JAN. . | 15 4 41 | 15 16 57 |
| | ○ | 2 7 53 | 2 20 56 | | FEB. . | 13 17 25 | 14 4 16 |
| | FEB. . | 17 2 15 | 16 20 57 | | MAR. . | 15 6 9 | 15 13 24 |
| | MAR. . | 17 14 59 | 17 9 14 | | APRIL | 13 18 53 | 13 21 2 |
| | APRIL | 16 3 43 | 15 22 37 | | MAY . | 13 7 37 | 13 4 5 |
| | MAY . | 15 16 27 | 15 13 4 | | ○ | 28 1 59 | 28 9 1 |
| | JUNE . | 14 5 11 | 14 4 22 | | JUNE . | 11 20 21 | 11 11 37 |
| | JULY . | 13 17 55 | 13 19 50 | | JULY . | 11 9 5 | 10 20 43 |
| | ○ | 28 12 17 | 28 2 46 | | AUG. . | 9 21 49 | 9 8 20 |
| | AUG. . | 12 6 39 | 12 10 52 | | SEPT. . | 8 10 33 | 7 22 53 |
| | SEPT. . | 10 19 23 | 11 1 3 | | OCT. . | 7 23 17 | 7 16 22 |
| | OCT. . | 10 8 7 | 10 14 15 | | NOV. . | 6 12 1 | 6 11 23 |
| | NOV. . | 8 20 51 | 9 2 31 | | ○ | 21 6 23 | 21 2 55 |
| | DEC. . | 8 9 35 | 8 14 0 | | DEC. . | 6 0 45 | 6 6 46 |
| 420. B. 23 9 41 | JAN. . | 6 22 20 | 7 0 42 | 417. F.E. 26 3 8 | JAN. . | 4 13 30 | 5 0 39 |
| | ○ | 21 16 42 | 21 22 53 | | FEB. . | 3 2 14 | 3 15 55 |
| | FEB. . | 5 11 4 | 5 10 43 | | MAR. . | 3 14 58 | 4 4 12 |
| | MAR. . | 6 23 48 | 6 20 24 | | APRIL | 2 3 42 | 2 13 43 |
| | APRIL | 5 12 32 | 5 6 20 | | ○ | 1 16 26 | 1 21 19 |
| | MAY . | 5 1 16 | 4 17 18 | | MAY ○ | 16 10 48 | 16 10 32 |
| | JUNE . | 3 14 0 | 3 5 54 | | ○ | 31 5 10 | 31 4 0 |
| | JULY . | 3 2 44 | 2 20 20 | | JUNE . | 29 17 54 | 29 10 53 |
| | ○ | 17 21 6 | 17 19 34 | | JULY . | 29 6 33 | 23 19 3 |
| | AUG. . | 1 15 23 | 1 12 18 | | AUG. . | 27 19 22 | 27 5 29 |
| | ○ | 31 4 12 | 31 5 2 | | SEPT. . | 26 8 6 | 25 18 52 |
| | SEPT. . | 29 16 56 | 29 21 40 | | OCT. . | 25 20 50 | 25 11 16 |
| | OCT. . | 29 5 40 | 29 13 21 | | ○ | 9 15 12 | 9 18 38 |
| | NOV. . | 27 13 24 | 28 3 35 | | NOV. . | 24 9 34 | 24 5 56 |
| | DEC. . | 27 7 8 | 27 16 6 | | DEC. . | 23 22 18 | 24 1 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 416. D. March. d. h. m. 26 8 56 | | d. h. m. | d. h. m. | B.C. 413. A.G. March. d. h. m. 26 2 23 | | d. h. m. | d. h. m. |
| | JAN. . | 22 11 3 | 22 20 13 | | JAN. . | 20 2 13 | 19 19 46 |
| | FEB. . | 20 23 47 | 21 12 42 | | FEB. . | 18 14 57 | 18 9 51 |
| | MAR. . | 22 12 31 | 23 2 12 | | ○ | { 4 9 19 | 4 20 58 |
| | APRIL | 21 1 15 | 21 12 45 | | MAR. . | { 19 3 41 | 19 0 54 |
| | ○ | { 5 19 37 | 5 12 43 | | APRIL | 17 16 25 | 17 16 31 |
| | MAY . | { 20 13 59 | 20 21 2 | | MAY . | 17 5 9 | 17 8 7 |
| | JUNE . | 19 2 43 | 19 4 5 | | JUNE . | 15 17 53 | 15 23 0 |
| | JULY . | 18 15 27 | 18 11 4 | | JULY . | 15 6 37 | 15 12 42 |
| | AUG. . | 17 4 11 | 16 19 1 | | AUG. . | { 13 19 21 | 14 1 9 |
| | SEPT. . | 15 16 55 | 15 4 45 | | ○ | { 28 13 43 | 27 23 45 |
| | OCT. . | 15 5 39 | 14 16 59 | | SEPT. . | 12 8 5 | 12 12 36 |
| | NOV. . | 13 18 23 | 13 7 54 | | OCT. . | 11 20 49 | 11 23 34 |
| | DEC. . | 13 7 7 | 13 1 8 | | NOV. . | 10 9 33 | 10 10 24 |
| | | | | | DEC. . | 9 22 17 | 9 21 14 |
| 415. C. 26 14 45 | JAN. . | 11 19 51 | 11 19 42 | 412. F. 26 8 12 | JAN. . | 8 11 1 | 8 8 9 |
| | FEB. . | 10 8 35 | 10 14 13 | | FEB. . | 6 23 45 | 6 19 13 |
| | MAR. . | { 11 21 19 | 12 7 18 | | MAR. . | 8 12 29 | 8 6 48 |
| | ○ | { 26 15 41 | 26 12 34 | | APRIL | 7 1 13 | 6 19 19 |
| | APRIL | 10 10 3 | 10 22 2 | | MAY . | 6 13 57 | 6 9 2 |
| | MAY . | 9 22 47 | 10 10 1 | | JUNE . | 5 2 41 | 4 23 52 |
| | JUNE . | 8 11 31 | 8 19 41 | | JULY . | 4 15 25 | 4 15 24 |
| | JULY . | 8 0 15 | 8 3 54 | | AUG. . | 3 4 9 | 3 6 55 |
| | AUG. . | 6 12 59 | 6 11 43 | | SEPT. . | 1 16 53 | 1 21 51 |
| | SEPT. . | 5 1 43 | 4 20 4 | | ○ | { 1 5 37 | 1 11 51 |
| | OCT. . | 4 14 27 | 4 5 42 | | NOV. . | { 30 18 21 | 31 0 49 |
| | NOV. . | 3 3 11 | 2 17 6 | | DEC. . | 29 7 5 | 29 12 49 |
| | DEC. . | { 2 15 55 | 2 6 27 | | | 28 19 49 | 28 23 53 |
| | | { ... | 31 21 39 | | | | |
| 414. B. 26 20 34 | JAN. . | { 1 4 39 | ... | 411. E. 26 14 1 | ○ | { 12 14 12 | 12 17 20 |
| | FEB. . | { 30 17 23 | 30 14 14 | | JAN. . | { 27 8 34 | 27 10 5 |
| | ○ | { 1 6 8 | 1 7 28 | | FEB. . | 25 21 18 | 25 19 38 |
| | MAR. ○ | { 16 0 30 | 16 4 58 | | MAR. . | 27 10 2 | 27 5 5 |
| | APRIL | { 30 18 52 | 31 0 18 | | APRIL | 25 22 46 | 25 15 13 |
| | MAY . | 29 7 36 | 29 15 48 | | MAY . | 25 11 30 | 25 2 45 |
| | JUNE . | 28 20 20 | 29 5 24 | | JUNE . | 24 0 14 | 23 16 12 |
| | JULY . | 27 9 4 | 27 16 59 | | ○ | { 8 18 36 | 8 19 46 |
| | AUG. . | 26 21 48 | 27 3 4 | | JULY . | { 23 12 53 | 23 7 38 |
| | ○ | { 25 10 32 | 25 12 24 | | AUG. . | 22 1 42 | 22 0 10 |
| | SEPT. . | { 9 4 54 | 8 19 49 | | SEPT. . | 20 14 26 | 20 17 13 |
| | OCT. . | { 23 23 16 | 23 21 47 | | OCT. . | 20 3 10 | 20 9 44 |
| | NOV. . | 23 12 0 | 23 7 48 | | NOV. . | 18 15 54 | 19 0 57 |
| | DEC. . | 22 0 44 | 21 18 45 | | DEC. . | 18 4 33 | 18 14 26 |
| | | 21 13 28 | 21 6 43 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 410. D. March. <i>d. h. m.</i> 26 19 49 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 407. G. March. <i>d. h. m.</i> 26 13 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 1 23 0 | 1 17 32 | | JAN. . | 13 8 32 | 13 14 56 |
| | JAN. . | { 16 17 23 | 17 2 3 | | FEB. . | 11 21 16 | 12 8 36 |
| | FEB. . | 15 6 7 | 15 11 56 | | MAR. . | 13 10 0 | 13 23 33 |
| | MAR. . | 16 18 51 | 16 20 29 | | APRIL | { 11 22 44 | 12 11 27 |
| | APRIL | 15 7 35 | 15 4 23 | | ○ | { 26 17 6 | 26 9 49 |
| | MAY . | 14 20 19 | 14 12 40 | | MAY . | 11 11 28 | 11 20 44 |
| | JUNE . | { 13 9 3 | 12 22 14 | | JUNE . | 10 0 12 | 10 4 20 |
| | ○ | { 28 3 25 | 28 10 43 | | JULY . | 9 12 56 | 9 11 19 |
| | JULY . | 12 21 47 | 12 10 0 | | AUG. . | 8 1 40 | 7 18 47 |
| | AUG. . | 11 10 31 | 11 0 26 | | SEPT. . | 6 14 24 | 6 3 39 |
| | SEPT. . | 9 23 15 | 9 17 17 | | OCT. . | { 6 3 8 | 5 14 41 |
| | OCT. . | 9 11 59 | 9 11 36 | | ○ | { 20 21 30 | 21 4 42 |
| | NOV. . | 8 0 43 | 8 6 6 | | NOV. . | 4 15 52 | 4 4 17 |
| | DEC. . | { 7 13 27 | 7 23 25 | | DEC. . | 4 4 36 | 3 20 23 |
| | ○ | { 22 7 49 | 21 23 57 | | | | |
| 409. C.B. 23 1 33 | JAN. . | 6 2 11 | 6 14 34 | 406. F. 26 19 5 | JAN. . | 2 17 21 | 2 14 18 |
| | FEB. . | 4 14 55 | 5 3 5 | | FEB. . | 1 6 5 | 1 8 49 |
| | MAR. . | 5 3 39 | 5 13 6 | | MAR. . | 2 18 49 | 3 2 37 |
| | APRIL | 3 16 23 | 3 21 15 | | APRIL | { 1 7 33 | 1 18 30 |
| | MAY . | 3 5 7 | 3 4 20 | | ○ | { 16 1 55 | 15 20 43 |
| | JUNE . | { 1 17 51 | { 1 11 24 | | MAY . | { 30 20 17 | { 1 7 50 |
| | ○ | { 16 12 13 | { 16 19 23 | | JUNE . | 30 9 1 | { 30 18 39 |
| | JULY . | { 1 6 35 | { 30 19 33 | | JULY . | 28 21 45 | 29 3 36 |
| | AUG. . | { 30 19 19 | 30 5 49 | | AUG. . | 28 10 29 | 23 11 39 |
| | SEPT. . | 29 8 3 | 28 19 0 | | SEPT. . | 26 23 13 | 26 19 49 |
| | OCT. . | 27 20 47 | 27 11 11 | | ○ | 25 11 57 | 25 4 55 |
| | NOV. . | 27 9 31 | 27 5 42 | | OCT. . | { 10 6 19 | 10 8 54 |
| | DEC. . | 25 22 15 | 26 1 12 | | ○ | { 25 0 41 | 24 15 31 |
| | DEC. . | 25 10 59 | 25 20 1 | | NOV. . | 23 13 25 | 23 3 53 |
| | | | | | DEC. . | 23 2 9 | 22 18 4 |
| 408. A. 26 7 27 | JAN. . | 23 23 44 | 24 12 41 | 405. E.D. 26 0 54 | JAN. . | 21 14 54 | 21 9 48 |
| | FEB. . | 22 12 28 | 23 2 22 | | FEB. . | 20 3 33 | 20 2 33 |
| | MAR. . | 24 1 12 | 24 13 6 | | MAR. . | 20 16 22 | 20 19 27 |
| | APRIL | 22 13 56 | 22 21 29 | | APRIL | 19 5 6 | 19 11 35 |
| | MAY . | 22 2 40 | 22 4 28 | | MAY . | 18 17 50 | 19 2 12 |
| | JUNE . | 20 15 24 | 20 11 7 | | JUNE . | 17 6 34 | 17 14 52 |
| | JULY . | 20 4 8 | 19 13 32 | | JULY . | 16 19 18 | 17 1 50 |
| | AUG. . | 18 16 52 | 18 3 48 | | AUG. . | 15 8 2 | 15 11 40 |
| | SEPT. . | 17 5 36 | 16 15 45 | | SEPT. . | 13 20 46 | 13 21 11 |
| | OCT. . | { 16 18 20 | 16 6 44 | | OCT. . | 13 9 30 | 13 7 2 |
| | ○ | { 31 12 42 | 31 17 23 | | NOV. . | 11 22 14 | 11 17 37 |
| | NOV. . | 15 7 4 | 15 0 24 | | DEC. . | 11 10 58 | 11 5 2 |
| | DEC. . | 14 19 48 | 14 19 41 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 404. c. March. <i>d. h. m.</i> 26 6 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 401. G.F. March. <i>d. h. m.</i> 26 0 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 9 23 42 | 9 17 21 | | JAN. . | 7 14 52 | 8 0 49 |
| | FEB. . | { 8 12 26 | 8 6 33 | | FEB. . | 6 3 36 | 6 11 24 |
| | ○ | { 23 6 43 | 23 19 47 | | MAR. . | 6 16 20 | 6 20 22 |
| | MAR. . | 10 1 10 | 9 20 56 | | APRIL | 5 5 4 | 5 4 20 |
| | APRIL | 8 13 54 | 8 12 3 | | MAY . | 4 17 48 | 4 12 6 |
| | MAY . | 8 2 33 | 8 3 36 | | JUNE . | 3 6 32 | 2 20 45 |
| | JUNE . | 6 15 22 | 6 18 55 | | JULY . | 2 19 16 | { 2 7 16 |
| | JULY . | 6 4 6 | 6 9 23 | | | { 1 8 0 | { 31 20 23 |
| | AUG. . | { 4 16 50 | 4 22 41 | | AUG. . | { 30 20 44 | 30 12 11 |
| | ○ | { 19 11 12 | 18 21 19 | | SEPT. . | 29 9 28 | 29 6 5 |
| | SEPT. . | 3 5 34 | 3 10 54 | | OCT. . | 28 22 12 | 29 0 52 |
| | OCT. . | 2 18 18 | 2 22 20 | | Nov. . | 27 10 56 | 27 19 5 |
| | Nov. . | { 1 7 2 | 1 9 23 | | ○ | { 12 5 18 | 11 21 40 |
| | | { 30 19 46 | 30 20 18 | | DEC. . | { 26 23 40 | 27 11 29 |
| | DEC. . | 30 8 30 | 30 7 5 | | | | |
| 403. B. | JAN. . | 28 21 15 | 28 17 53 | 400. E. | JAN. . | 25 12 24 | 26 1 17 |
| | ○ | { 12 15 37 | 13 4 42 | | FEB. . | 24 1 9 | 24 12 26 |
| | FEB. . | { 27 9 59 | 27 4 53 | 26 5 58 | MAR. . | 25 13 53 | 25 21 18 |
| 26 12 31 | MAR. . | 23 22 43 | 23 16 31 | | APRIL | 24 2 37 | 24 4 39 |
| | APRIL | 27 11 27 | 27 5 25 | | MAY . | 23 15 21 | 23 11 31 |
| | MAY . | 27 0 11 | 26 19 35 | | ○ | { 7 9 43 | 7 15 55 |
| | JUNE . | 25 12 55 | 25 10 50 | | JUNE . | { 22 4 5 | 21 18 56 |
| | JULY . | 25 1 39 | 25 2 35 | | JULY . | 21 16 49 | 21 4 2 |
| | ○ | { 8 20 1 | 8 10 33 | | AUG. . | 20 5 33 | 19 15 45 |
| | AUG. . | { 23 14 23 | 23 18 8 | | SEPT. . | 18 18 17 | 18 6 33 |
| | SEPT. . | 22 3 7 | 22 8 56 | | OCT. . | 18 7 1 | 18 0 7 |
| | OCT. . | 21 15 51 | 21 22 42 | | Nov. . | 16 19 45 | 16 19 24 |
| | Nov. . | 20 4 35 | 20 11 21 | | ○ | { 1 14 7 | 1 11 54 |
| | DEC. . | 19 17 19 | 19 22 55 | | DEC. . | { 16 8 29 | 16 14 43 |
| 402. A. | JAN. . | 18 6 4 | 18 9 27 | 399. D. | JAN. . | 14 21 14 | 15 8 41 |
| | ○ | { 2 0 26 | 2 6 23 | | FEB. . | 13 9 58 | 13 23 52 |
| | FEB. . | { 16 18 48 | 16 19 4 | 26 11 47 | MAR. . | 14 22 42 | 15 11 53 |
| 26 18 20 | MAR. . | 18 7 32 | 18 4 15 | | APRIL | 13 11 26 | 13 21 19 |
| | APRIL | 16 20 16 | 16 13 41 | | MAY . | { 13 0 10 | 13 4 49 |
| | MAY . | 16 9 0 | 16 0 14 | | ○ | { 27 18 32 | 27 16 53 |
| | JUNE . | 14 21 44 | 14 12 34 | | JUNE . | 11 12 54 | 11 11 19 |
| | JULY . | { 14 10 28 | 14 2 59 | | JULY . | 11 1 38 | 10 18 26 |
| | ○ | { 29 4 50 | 29 3 19 | | AUG. . | 9 14 22 | 9 2 44 |
| | AUG. . | 12 23 12 | 12 19 12 | | SEPT. . | 8 3 6 | 7 13 22 |
| | SEPT. . | 11 11 56 | 11 12 23 | | OCT. . | 7 15 50 | 7 2 53 |
| | OCT. . | 11 0 40 | 11 5 33 | | Nov. . | { 6 4 34 | 5 19 20 |
| | Nov. . | 9 13 24 | 9 21 45 | | ○ | { 20 22 56 | 21 3 33 |
| | DEC. . | 9 2 8 | 9 12 16 | | DEC. . | 5 17 18 | 5 13 57 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 398. c. March. d. h. m. 26 17 35 | JAN. . | d. h. m. 4 6 2 | d. h. m. 4 9 21 | B.C. 395. r. March. d. h. m. 26 11 2 | JAN. . | d. h. m. 80 9 56 | d. h. m. 80 3 58 |
| | FEB. . | 2 18 46 | 3 3 52 | | FEB. . | 28 22 40 | 28 17 27 |
| | MAR. . | 4 7 30 | 4 20 10 | | ○ | { 15 17 2 | 16 4 50 |
| | APRIL | 2 20 14 | 3 9 31 | | MAR. . | { 30 11 24 | 30 7 54 |
| | MAY ○ | { 2 8 58 | 2 20 1 | | APRIL | 29 0 8 | 28 23 6 |
| | | { 17 3 20 | 16 19 27 | | MAY . | 28 12 52 | 28 14 33 |
| | JUNE . | { 31 21 42 | { 1 4 22 | | JUNE . | 27 1 36 | 27 5 36 |
| | JULY . | 80 10 26 | { 30 11 33 | | JULY . | 26 14 20 | 26 19 44 |
| | AUG. . | 29 23 10 | 29 18 48 | | AUG. . | 25 3 4 | 25 8 44 |
| | SEPT. . | 28 11 54 | 28 3 1 | | ○ | { 8 21 26 | 8 7 28 |
| | OCT. . | 27 0 38 | 26 18 3 | | SEPT. . | { 28 15 48 | 23 20 48 |
| | NOV. . | 26 13 22 | 26 1 24 | | OCT. . | 23 4 32 | 23 8 15 |
| | DEC. . | 25 2 6 | 24 16 15 | | NOV. . | 21 17 16 | 21 19 20 |
| | | 24 14 50 | 24 9 13 | | DEC. . | 21 6 0 | 21 6 9 |
| 397. B.A. 25 23 24 | JAN. . | 23 3 35 | 23 3 26 | 394. E. 26 16 51 | JAN. . | 19 18 45 | 19 16 47 |
| | FEB. . | 21 16 19 | 21 21 33 | | FEB. . | 18 7 29 | 18 3 23 |
| | MAR. . | 22 5 3 | 22 14 21 | | MAR. . | 19 20 13 | 19 14 24 |
| | ○ | { 5 23 25 | 5 20 14 | | APRIL | 18 8 57 | 18 2 21 |
| | APRIL | { 20 17 47 | 21 4 57 | | MAY . | 17 21 41 | 17 15 33 |
| | MAY . | 20 6 31 | 20 17 0 | | JUNE . | 16 10 25 | 16 6 21 |
| | JUNE . | 18 19 15 | 19 2 54 | | JULY . | 15 23 9 | 15 22 1 |
| | JULY . | 18 7 59 | 18 11 27 | | AUG. . | 14 11 53 | 14 13 57 |
| | AUG. . | 16 20 43 | 16 19 39 | | SEPT. . | 13 0 37 | 13 5 29 |
| | SEPT. . | 15 9 27 | 15 4 24 | | OCT. . | 12 13 21 | 12 20 4 |
| | OCT. . | 14 22 11 | 14 14 21 | | NOV. . | 11 2 5 | 11 9 32 |
| | NOV. . | 13 10 55 | 13 1 51 | | DEC. . | 10 14 49 | 10 21 44 |
| | DEC. . | 12 23 39 | 12 15 3 | | | | |
| 396. G. 26 5 13 | JAN. . | 11 12 24 | 11 5 52 | 393. D.C. 25 22 40 | JAN. . | { 9 8 33 | 9 8 42 |
| | FEB. . | 10 1 8 | 9 21 54 | | ○ | { 28 21 55 | 24 1 0 |
| | MAR. . | { 11 13 52 | 11 12 34 | | FEB. . | 7 16 17 | 7 18 34 |
| | ○ | { 26 8 14 | 26 12 52 | | MAR. . | 8 5 1 | 8 3 41 |
| | APRIL | 10 2 36 | 10 7 1 | | APRIL | 6 17 45 | 6 12 39 |
| | MAY . | 9 15 20 | 9 22 25 | | MAY . | 6 6 29 | 5 22 19 |
| | JUNE . | 8 4 4 | 8 12 9 | | JUNE . | 4 19 13 | 4 9 31 |
| | JULY . | 7 16 48 | 8 0 6 | | JULY . | { 4 7 57 | 3 22 52 |
| | AUG. . | 6 5 32 | 6 10 39 | | ○ | { 19 2 19 | 19 3 21 |
| | SEPT. . | { 4 18 16 | 4 20 30 | | AUG. . | 2 20 41 | 2 14 13 |
| | ○ | { 19 12 33 | 19 3 18 | | SEPT. . | { 1 9 25 | 1 7 18 |
| | OCT. . | 4 7 0 | 4 6 20 | | | { 30 22 9 | { 1 0 52 |
| | NOV. . | 2 19 44 | 2 16 40 | | OCT. . | 30 10 53 | { 30 17 54 |
| | DEC. . | { 2 8 28 | 2 3 40 | | NOV. . | 23 23 37 | 29 9 30 |
| | | { 31 21 12 | 31 15 25 | | DEC. . | 23 12 21 | 23 23 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---|---|--|--|---|---|---|
| B.C. 392. B. March. d. h. m. 26 4 28 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. { 12 6 43 27 1 6 25 13 50 27 2 34 25 15 18 25 4 2 23 16 46 { 8 11 8 23 5 30 21 18 14 20 6 58 19 19 42 18 8 26 17 21 10 | d. h. m. 12 1 33 27 10 36 25 20 11 27 4 22 25 11 56 24 19 52 23 5 15 8 17 58 22 17 0 21 7 38 20 0 39 19 19 21 18 14 11 18 7 43 | B.C. 389. F.E. March. d. h. m. 25 21 55 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | d. h. m. 24 16 16 23 5 0 23 17 44 22 6 28 { 7 0 50 21 19 12 20 7 56 19 20 40 18 9 24 16 22 8 { 16 10 52 31 5 14 14 23 36 14 12 20 | d. h. m. 24 22 38 23 16 4 24 6 52 22 18 42 6 16 46 22 4 1 20 11 44 19 18 58 18 2 43 16 11 54 15 23 9 31 13 3 14 12 46 14 4 39 |
| 391. A. 26 10 17 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 1 15 33 16 9 55 14 22 39 16 11 23 15 0 7 14 12 51 { 13 1 35 27 19 57 12 14 19 11 3 3 9 15 47 9 4 31 7 17 15 7 5 59 | 1 8 30 16 22 55 15 11 17 16 21 4 15 4 57 14 11 49 12 18 47 28 2 8 12 2 54 10 13 15 9 2 35 8 18 55 7 13 35 7 9 11 | 388. D. 26 3 44 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 13 1 5 11 13 49 13 2 33 { 11 15 17 26 9 39 11 4 1 9 16 45 9 5 29 7 18 13 6 6 57 { 5 19 41 20 14 3 4 8 25 3 21 9 | 12 22 11 11 16 17 13 9 43 12 1 24 26 4 8 11 14 48 10 1 43 9 10 59 7 19 26 6 4 3 5 13 30 20 16 44 4 0 18 3 12 35 |
| 390. G. 26 16 6 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 5 18 43 4 7 27 5 20 11 4 8 55 3 21 39 2 10 23 { 1 23 7 31 11 51 30 0 35 28 13 19 23 2 3 { 11 20 25 26 14 47 26 3 31 | 6 4 1 4 20 35 6 10 8 4 20 43 4 4 58 2 11 54 1 18 35 31 2 11 29 11 39 27 23 47 27 14 51 12 2 11 26 8 23 26 3 36 | 387. C. 26 9 33 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 2 9 53 31 22 37 ... 2 11 21 { 1 0 5 15 18 27 30 12 49 30 1 33 28 14 17 28 3 1 26 15 45 25 4 29 24 17 13 23 5 57 22 18 41 | 2 2 27 31 17 40 ... 2 9 49 1 2 17 15 20 25 30 18 11 30 8 48 28 21 47 28 9 11 26 19 34 23 5 36 24 15 49 23 2 33 22 13 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 386. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 383. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. | JAN. . | 21 7 26 | 21 1 47 | E. March. | JAN. . | 17 22 35 | 18 9 24 |
| <i>d. h. m.</i> | FEB. . | 19 20 10 | 19 14 30 | <i>d. h. m.</i> | FEB. . | 16 11 20 | 16 19 46 |
| 26 15 21 | ○ | { 6 14 32 | 7 3 42 | 26 8 48 | MAR. . | 18 0 4 | 18 4 24 |
| | MAR. . | 21 8 54 | 21 4 9 | | APRIL | 16 12 48 | 16 11 59 |
| | APRIL | 19 21 38 | 19 18 47 | | MAY . | 16 1 32 | 15 19 28 |
| | MAY . | 19 10 22 | 19 10 4 | | JUNE . | 14 14 16 | 14 3 54 |
| | JUNE . | 17 28 6 | 18 1 25 | | JULY . | 14 3 0 | 13 14 20 |
| | JULY . | 17 11 50 | 17 16 13 | | AUG. . | 12 15 41 | 12 3 30 |
| | AUG. . | { 16 0 34 | 16 6 4 | | SEPT. . | 11 4 28 | 10 19 31 |
| | ○ | { 30 18 56 | 30 5 2 | | OCT. . | 10 17 12 | 10 13 42 |
| | SEPT. . | 14 13 18 | 14 18 52 | | NOV. . | 9 5 56 | 9 8 49 |
| | OCT. . | 14 2 2 | 14 6 52 | | DEC. . | { 8 18 40 | 9 3 18 |
| | NOV. . | 12 14 46 | 12 18 17 | | ○ | { 23 13 2 | 23 6 22 |
| | DEC. . | 12 3 30 | 12 5 15 | | | | |
| 385. | JAN. . | 10 16 15 | 10 15 53 | 382. | JAN. . | 7 7 24 | 7 19 48 |
| A.G. | FEB. . | { 9 4 59 | 9 2 15 | D. | FEB. . | 5 20 9 | 6 9 33 |
| 25 21 10 | ○ | { 23 23 21 | 24 12 20 | 26 14 37 | MAR. . | 7 8 53 | 7 20 27 |
| | MAR. . | 9 17 43 | 9 12 42 | | APRIL | 5 21 37 | 6 5 3 |
| | APRIL | 8 6 27 | 7 23 49 | | MAY . | 5 10 21 | 5 12 13 |
| | MAY . | 7 19 11 | 7 12 12 | | JUNE . | { 3 23 5 | 3 18 55 |
| | JUNE . | 6 7 55 | 6 2 7 | | ○ | { 18 17 27 | 18 22 31 |
| | JULY . | 5 20 39 | 5 17 23 | | JULY . | 3 11 49 | 3 2 19 |
| | AUG. . | { 4 9 23 | 4 9 26 | | ○ | { 2 0 33 | 1 11 29 |
| | ○ | { 19 3 45 | 18 18 28 | | AUG. . | { 31 13 17 | 30 23 20 |
| | SEPT. . | 2 22 7 | 3 1 31 | | SEPT. . | 30 2 1 | 29 14 17 |
| | OCT. . | { 2 10 51 | 2 16 55 | | OCT. . | 29 14 45 | 29 8 0 |
| | ○ | { 31 23 35 | 1 7 13 | | NOV. . | 28 3 29 | 28 3 23 |
| | NOV. . | 30 12 19 | { 30 20 11 | | ○ | { 12 21 51 | 12 20 51 |
| | DEC. . | 30 1 3 | 30 7 46 | | DEC. . | { 27 16 13 | 27 22 47 |
| 384. | JAN. . | 23 13 47 | 23 18 3 | 381. | JAN. . | 26 4 57 | 26 16 35 |
| F. | ○ | { 12 8 9 | 12 13 55 | C.B. | FEB. . | 24 17 41 | 25 7 38 |
| 26 2 59 | FEB. . | { 27 2 31 | 27 3 18 | 25 20 26 | MAR. . | 25 6 25 | 25 19 33 |
| | MAR. . | 23 15 15 | 23 12 0 | | APRIL | 23 19 9 | 24 4 48 |
| | APRIL | 27 3 59 | 26 20 58 | | MAY . | 23 7 53 | 23 12 13 |
| | MAY . | 26 16 43 | 26 7 9 | | ○ | { 7 2 15 | 6 23 25 |
| | JUNE . | 25 5 27 | 21 19 18 | | JUNE . | { 21 20 37 | 21 18 56 |
| | JULY . | 24 18 11 | 24 9 45 | | JULY . | 21 9 21 | 21 2 3 |
| | ○ | { 8 12 33 | 8 11 8 | | AUG. . | 19 22 5 | 19 10 31 |
| | AUG. . | { 23 6 55 | 23 2 12 | | SEPT. . | 18 10 49 | 17 21 24 |
| | SEPT. . | 21 19 39 | 21 19 50 | | OCT. . | 17 23 33 | 17 11 2 |
| | OCT. . | 21 8 23 | 21 13 31 | | NOV. . | 16 12 17 | 16 3 29 |
| | NOV. . | 19 21 7 | 20 6 7 | | ○ | { 1 6 39 | 1 12 27 |
| | DEC. . | 19 9 51 | 19 20 52 | | DEC. . | { 16 1 1 | 15 21 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 380. A. March. d. h. m. 26 2 14 | | d. h. m. | d. h. m. | B.C. 377. E.D. March. d. h. m. 25 19 41 | | d. h. m. | d. h. m. |
| | JAN. . | 14 13 45 | 14 17 5 | | JAN. . | 12 4 56 | 12 0 2 |
| | FEB. . | 13 2 29 | 13 11 21 | | FEB. . | 10 17 40 | 10 12 4 |
| | MAR. . | 14 15 14 | 15 3 28 | | MAR. . | { 11 6 24 | 11 0 57 |
| | APRIL | 13 3 58 | 13 16 43 | | ○ | { 26 0 46 | 26 12 34 |
| | MAY . | { 12 16 42 | 13 3 13 | | APRIL | 9 19 8 | 9 14 49 |
| | ○ | { 27 11 4 | 27 2 14 | | MAY . | 9 7 52 | 9 5 39 |
| | JUNE . | 11 5 26 | 11 11 41 | | JUNE . | 7 20 36 | 7 21 0 |
| | JULY . | 10 18 10 | 10 19 8 | | JULY . | 7 9 20 | 7 12 15 |
| | AUG. . | 9 6 54 | 9 2 40 | | AUG. . | 5 22 4 | 6 2 50 |
| | SEPT. . | 7 19 38 | 7 11 12 | | SEPT. . | { 4 10 48 | 4 16 27 |
| | OCT. . | 7 8 22 | 6 21 30 | | ○ | { 19 5 10 | 18 15 22 |
| | NOV. . | 5 21 6 | 5 9 56 | | OCT. . | 3 23 32 | 4 5 6 |
| | DEC. . | 5 9 50 | 5 0 40 | | NOV. . | 2 12 16 | 2 17 0 |
| | | | | | DEC. . | { 2 1 0 | 2 4 18 |
| | | | | | | { 31 13 44 | 31 15 3 |
| 379. G. 26 8 3 | JAN. . | 3 22 34 | 3 17 17 | 376. C. 26 1 30 | JAN. . | 30 2 23 | 30 1 20 |
| | FEB. . | 2 11 18 | 2 11 0 | | FEB. . | 28 15 12 | 28 11 26 |
| | MAR. . | 4 0 2 | 4 4 43 | | MAR. . | 30 3 56 | 29 21 52 |
| | APRIL | 2 12 46 | 2 21 14 | | APRIL | 28 16 40 | 28 9 17 |
| | MAY . | { 2 1 30 | 2 11 45 | | MAY . | 28 5 24 | 27 22 15 |
| | | { 31 14 14 | 31 23 56 | | JUNE . | 26 18 8 | 26 12 51 |
| | JUNE . | 30 2 58 | 30 10 7 | | JULY . | 26 6 52 | 26 4 42 |
| | JULY . | 29 15 42 | 29 19 4 | | AUG. . | 24 19 36 | 24 21 5 |
| | AUG. . | 28 4 23 | 28 3 42 | | SEPT. . | 23 8 20 | 23 13 12 |
| | SEPT. . | 26 17 10 | 26 12 52 | | OCT. . | 22 21 4 | 23 4 23 |
| | OCT. . | 26 5 54 | 25 23 5 | | NOV. . | 21 9 48 | 21 18 13 |
| | NOV. . | 24 18 33 | 24 10 39 | | DEC. . | 20 22 32 | 21 6 33 |
| | DEC. . | 24 7 22 | 23 23 37 | | | | |
| 378. F. 26 13 52 | JAN. . | 22 20 7 | 22 13 57 | 375. B. 26 7 19 | JAN. . | 19 11 17 | 19 17 25 |
| | FEB. . | 21 8 51 | 21 5 25 | | ○ | { 8 5 39 | 3 8 33 |
| | MAR. . | 22 21 35 | 22 21 33 | | FEB. . | { 18 0 1 | 18 2 57 |
| | ○ | { 6 15 57 | 6 20 39 | | MAR. . | 19 12 45 | 19 11 37 |
| | APRIL | { 21 10 19 | 21 13 38 | | APRIL | 18 1 29 | 17 20 8 |
| | MAY . | 20 23 3 | 21 4 58 | | MAY . | 17 14 13 | 17 5 24 |
| | JUNE . | 19 11 47 | 19 18 53 | | JUNE . | 16 2 57 | 15 16 22 |
| | JULY . | 19 0 31 | 19 7 14 | | JULY . | { 15 15 41 | 15 5 33 |
| | AUG. . | 17 13 15 | 17 18 19 | | ○ | { 30 10 3 | 30 11 4 |
| | SEPT. . | { 16 1 59 | 16 4 42 | | AUG. . | 14 4 23 | 13 21 15 |
| | ○ | { 30 20 21 | 30 10 53 | | SEPT. . | 12 17 9 | 12 14 36 |
| | OCT. . | 15 14 43 | 15 15 1 | | OCT. . | 12 5 53 | 12 8 33 |
| | NOV. . | 14 3 27 | 14 1 35 | | NOV. . | 10 18 37 | 11 2 8 |
| | DEC. . | 13 16 11 | 13 12 35 | | DEC. . | 10 7 21 | 10 18 2 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon. (: Full Ecl.) | True New Moon. (: Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (: Full Ecl.) | True New Moon. (: Full Ecl.) |
|---------------------------|---------|-------------------------------------|-------------------------------------|----------------------------|---------|-------------------------------------|-------------------------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 374. | JAN. . | { 8 20 5 | 9 7 42 | 371. | JAN. . | 5 11 16 | 5 11 27 |
| March. | ○ | { 23 14 27 | 23 9 30 | March. | FEB. . | 4 0 0 | 4 6 12 |
| <i>d. h. m.</i> | FEB. . | 7 8 50 | 7 19 8 | <i>d. h. m.</i> | MAR. . | 5 12 44 | 5 23 23 |
| 26 13 7 | MAR. . | 8 21 34 | 9 4 19 | 26 6 34 | APRIL. | 4 1 28 | 4 14 2 |
| | APRIL. | 7 10 18 | 7 12 9 | | MAY. . | { 8 14 12 | 4 1 51 |
| | MAY. . | { 6 23 2 | 6 19 23 | | ○ | { 18 8 31 | 17 23 41 |
| | JUNE . | 5 11 46 | 5 8 7 | | JUNE . | 2 2 56 | 2 11 15 |
| | JULY . | { 5 0 30 | 4 12 24 | | JULY . | { 1 15 40 | 1 19 12 |
| | ○ | { 19 18 52 | 20 1 17 | | ○ | { 31 4 21 | 31 2 44 |
| | AUG. . | 8 13 14 | 8 0 9 | | AUG. . | 29 17 8 | 29 10 50 |
| | SEPT. . | 2 1 58 | 1 14 51 | | SEPT. . | 28 5 52 | 27 20 19 |
| | OCT. . | { 1 14 42 | 1 8 11 | | OCT. . | { 27 18 30 | 27 7 43 |
| | ○ | { 31 8 26 | 31 8 11 | | ○ | { 11 12 58 | 11 21 28 |
| | NOV. . | 29 16 10 | 29 22 18 | | NOV. . | { 26 7 20 | 25 21 18 |
| | DEC. . | 29 4 54 | 29 15 58 | | DEC. . | 25 20 4 | 25 12 55 |
| | ○ | { 12 23 16 | 12 16 59 | | | | |
| 373. | JAN. . | { 27 17 34 | 28 7 0 | 370. | JAN. . | 24 8 48 | 24 5 58 |
| u.v. | FEB. . | 26 6 22 | 26 19 19 | u. | FEB. . | 23 21 32 | 22 23 31 |
| 25 18 56 | MAR. . | 26 19 6 | 27 4 52 | 26 12 23 | MAR. . | 21 10 16 | 24 16 38 |
| | APRIL. | 25 7 59 | 25 12 31 | | APRIL. | 22 23 0 | 23 8 10 |
| | MAY. . | 24 20 34 | 24 19 15 | | ○ | { 7 17 24 | 7 11 20 |
| | JUNE . | 23 9 18 | 23 2 10 | | MAY. . | { 22 11 41 | 22 21 32 |
| | ○ | { 8 3 40 | 8 8 54 | | JUNE . | 21 0 29 | 21 8 46 |
| | JULY . | { 22 22 2 | 22 10 21 | | JULY . | 20 13 12 | 20 18 25 |
| | AUG. . | 21 10 46 | 20 20 50 | | AUG. . | 19 1 56 | 19 8 21 |
| | SEPT. . | 19 23 30 | 19 10 18 | | SEPT. . | 17 14 40 | 17 12 23 |
| | OCT. . | 19 12 14 | 19 2 48 | | OCT. . | { 17 8 24 | 16 22 11 |
| | NOV. . | 18 0 58 | 17 21 33 | | ○ | { 31 21 46 | { 1 0 39 |
| | DEC. . | 17 13 42 | 17 17 9 | | NOV. . | 15 13 8 | { 15 9 7 |
| | | | | | DEC. . | 15 4 52 | 14 21 19 |
| 372. | JAN. . | 16 2 27 | 16 11 54 | 369. | JAN. . | 13 17 37 | 13 10 48 |
| u. | FEB. . | 14 15 11 | 15 4 21 | u.a. | FEB. . | 12 6 21 | 12 1 26 |
| 25 0 45 | MAR. . | 16 8 55 | 16 17 45 | 25 13 12 | MAR. . | 12 19 5 | 12 17 0 |
| | APRIL. | 14 16 39 | 15 4 12 | | APRIL. | { 11 7 49 | 11 9 1 |
| | MAY. . | 14 5 23 | 14 12 23 | | ○ | { 26 2 11 | 26 4 1 |
| | JUNE . | 12 18 7 | 12 19 30 | | MAY. . | 10 20 33 | 11 0 42 |
| | JULY . | 12 6 51 | 12 2 11 | | JUNE . | 9 9 17 | 9 15 25 |
| | AUG. . | 10 19 35 | 10 9 50 | | JULY . | 8 22 1 | 9 4 43 |
| | SEPT. . | 9 8 19 | 8 19 41 | | AUG. . | 7 10 45 | 7 16 39 |
| | OCT. . | 8 21 3 | 8 7 50 | | SEPT. . | 5 23 29 | 6 8 36 |
| | NOV. . | { 7 9 47 | 6 23 5 | | OCT. . | 5 12 13 | 5 14 7 |
| | ○ | { 22 4 9 | 22 11 0 | | NOV. . | 4 0 57 | 4 0 42 |
| | DEC. . | 6 22 31 | 6 16 35 | | DEC. . | 3 13 41 | 3 11 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|--------------|------------------------------------|------------------------------------|--|--------------|------------------------------------|------------------------------------|
| B.C. 368. G. March. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 365. D.C. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>d. h. m.</i> 26 0 0 | JAN. . | { 2 2 25 | 1 22 37 | 25 17 27 | JAN. . | 29 6 19 | 29 17 52 |
| | FEB. . | { 31 15 9 | 31 10 7 | | FEB. . | 27 19 3 | 28 3 59 |
| | | ... | ... | | MAR. . | 28 7 47 | 28 12 15 |
| | MAR.○ | { 2 3 53 | 1 22 13 | | APRIL | 26 20 31 | 26 19 32 |
| | | { 16 22 15 | 17 11 26 | | MAY . | 26 9 15 | 26 2 46 |
| | | { 31 16 37 | 31 11 17 | | JUNE . | 24 21 59 | 24 11 5 |
| | APRIL | 30 5 21 | 30 1 27 | | JULY . | 24 10 43 | 23 21 30 |
| | MAY . | 29 18 5 | 29 16 30 | | AUG. . | 22 23 27 | 22 10 46 |
| | JUNE . | 28 6 49 | 28 7 56 | | SEPT. . | 21 12 11 | 21 3 0 |
| | JULY . | 27 19 33 | 27 23 6 | | OCT. . | 21 0 55 | 20 21 27 |
| | AUG. . | 26 8 17 | 26 13 30 | | NOV. . | 19 13 39 | 19 16 48 |
| | SEPT. . | 24 21 1 | 25 2 56 | | DEC. . | 19 2 23 | 19 11 26 |
| | OCT. . | 24 9 45 | 24 15 26 | | | | |
| | NOV. . | 22 22 29 | 23 3 10 | | ○ { 2 20 45 | 2 15 2 | |
| | DEC. . | 22 11 13 | 22 14 12 | 364. B. | JAN. . | { 17 15 8 | 18 3 58 |
| 367. F. | JAN. . | 20 23 58 | 21 0 35 | 25 23 16 | FEB. . | 16 3 52 | 16 17 35 |
| <i>d. h. m.</i> 26 5 49 | FEB. . | 19 12 42 | 19 10 30 | | MAR. . | 17 16 36 | 18 4 18 |
| | ○ { 6 7 4 | 6 19 46 | | | APRIL | 16 5 20 | 16 12 41 |
| | MAR. . | { 21 1 26 | 20 20 24 | | MAY . | 15 18 4 | 15 19 40 |
| | APRIL | 19 14 10 | 19 6 59 | | JUNE . | { 14 6 48 | 14 2 20 |
| | MAY . | 19 2 54 | 18 18 56 | | ○ { 29 1 10 | 29 5 8 | |
| | JUNE . | 17 15 38 | 17 8 38 | | JULY . | 13 19 32 | 13 9 47 |
| | JULY . | 17 4 22 | 16 23 59 | | AUG. . | 12 8 16 | 11 19 5 |
| | AUG. . | { 15 17 6 | 15 16 23 | | SEPT. . | 10 21 0 | 10 7 3 |
| | ○ { 30 11 23 | 30 2 31 | | | OCT. . | 10 9 44 | 9 22 10 |
| | SEPT. . | 14 5 50 | 14 9 0 | | NOV. . | 8 22 28 | 8 15 58 |
| | OCT. . | 13 18 34 | 14 1 0 | | DEC. . | { 8 11 12 | 8 11 21 |
| | NOV. . | 12 7 18 | 12 15 46 | | ○ { 23 5 34 | 23 5 47 | |
| | DEC. . | 11 20 2 | 12 4 53 | 363. A. | JAN. . | 6 23 57 | 7 6 41 |
| 366. E. | JAN. . | 10 8 46 | 10 16 33 | 26 5 5 | FEB. . | 5 12 41 | 6 0 20 |
| <i>d. h. m.</i> 26 11 38 | FEB. . | { 8 21 30 | 9 2 33 | | MAR. . | 7 1 25 | 7 15 13 |
| | ○ { 23 15 52 | 23 21 13 | | | APRIL | 5 14 9 | 6 3 2 |
| | MAR. . | 10 10 15 | 10 11 24 | | MAY . | 5 2 53 | 5 12 12 |
| | APRIL | 8 22 59 | 8 19 39 | | JUNE . | { 3 15 37 | 3 19 38 |
| | MAY . | 8 11 43 | 8 4 13 | | ○ { 13 9 59 | 13 5 53 | |
| | JUNE . | 7 0 27 | 6 14 6 | | JULY . | 3 4 21 | 3 2 29 |
| | JULY . | 6 13 11 | 6 2 7 | | AUG. . | { 1 17 5 | 1 9 47 |
| | AUG. . | { 5 1 55 | 4 16 37 | | ○ { 31 5 49 | 30 18 33 | |
| | ○ { 19 20 17 | 19 19 7 | | | SEPT. . | 29 13 33 | 29 5 35 |
| | SEPT. . | 3 14 39 | 3 9 21 | | OCT. . | 29 7 17 | 28 19 20 |
| | OCT. . | 3 3 23 | 3 3 26 | | NOV. . | 27 20 1 | 27 11 42 |
| | NOV. . | 1 16 7 | 1 21 34 | | ○ { 12 14 23 | 12 21 21 | |
| | DEC. . | { 1 4 51 | 1 14 32 | | DEC. . | { 27 8 45 | 27 5 55 |
| | | { 30 17 35 | 31 5 25 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 362. G. March. d. h. m. 26 10 53 | | d. h. m. | d. h. m. | B.C. 359. C. March. d. h. m. 26 4 20 | | d. h. m. | d. h. m. |
| | JAN. . | 25 21 29 | 26 0 44 | | JAN. . | 22 12 39 | 22 8 34 |
| | FEB. . | 24 10 18 | 24 18 43 | | FEB. . | 21 1 23 | 20 20 4 |
| | MAR. . | 25 22 57 | 26 10 37 | | MAR. . | 22 14 7 | 22 8 18 |
| | APRIL | 24 11 41 | 24 23 47 | | ○ | { 6 8 29 | 6 20 8 |
| | MAY . | 24 0 25 | 24 10 21 | | APRIL | { 21 2 51 | 20 21 39 |
| | ○ | { 7 18 47 | 7 9 0 | | MAY . | 20 15 35 | 20 12 8 |
| | JUNE . | { 22 13 9 | 22 19 1 | | JUNE . | 19 4 19 | 19 3 26 |
| | JULY . | 22 1 53 | 22 2 46 | | JULY . | 18 17 3 | 18 18 56 |
| | AUG. . | 20 14 37 | 20 10 39 | | AUG. . | 17 5 47 | 17 10 2 |
| | SEPT. . | 19 3 21 | 18 19 32 | | SEPT. . | { 15 18 31 | 16 0 16 |
| | OCT. . | 18 16 5 | 18 6 3 | | ○ | { 30 12 53 | 29 22 24 |
| | NOV. . | 17 4 49 | 16 18 33 | | OCT. . | 15 7 15 | 15 13 30 |
| | DEC. . | 16 17 33 | 16 9 4 | | NOV. . | 13 19 59 | 14 1 49 |
| | | | | | DEC. . | 13 8 43 | 13 13 14 |
| 361. F.E. 25 16 42 | JAN. . | 15 6 18 | 15 1 17 | 358. B. 26 10 9 | JAN. . | 11 21 28 | 11 23 52 |
| | FEB. . | 13 19 2 | 13 18 30 | | FEB. . | 10 10 12 | 10 9 47 |
| | MAR. . | 14 7 46 | 14 11 46 | | MAR. . | 11 22 56 | 11 19 21 |
| | APRIL | 12 20 30 | 13 4 2 | | APRIL | 10 11 40 | 10 5 15 |
| | MAY . | 12 9 14 | 12 18 30 | | MAY . | 10 0 24 | 9 16 13 |
| | JUNE . | 10 21 53 | 11 6 52 | | JUNE . | 8 13 8 | 8 4 53 |
| | JULY . | 10 10 42 | 10 17 24 | | JULY . | 8 1 52 | 7 19 26 |
| | AUG. . | 8 23 26 | 9 2 47 | | AUG. . | 6 14 36 | 6 11 31 |
| | SEPT. . | 7 12 10 | 7 11 54 | | SEPT. . | { 5 3 20 | 5 4 28 |
| | OCT. . | 7 0 54 | 6 21 28 | | ○ | { 19 21 42 | 19 11 27 |
| | NOV. . | 5 13 38 | 5 7 56 | | OCT. . | 4 16 4 | 4 21 3 |
| | DEC. . | 5 2 22 | 4 19 29 | | NOV. . | 3 4 48 | 3 12 45 |
| | | | | | DEC. . | 2 17 32 | 3 2 56 |
| 360. D. 25 22 31 | JAN. . | 3 15 7 | 3 8 10 | 357. A.G. 25 15 53 | JAN. . | { 1 6 17 | 1 15 22 |
| | FEB. . | 2 3 51 | 1 21 53 | | ○ | { 30 19 1 | 31 2 2 |
| | MAR. . | 3 16 35 | 3 12 49 | | FEB. . | 29 7 45 | 29 11 13 |
| | APRIL | { 2 5 19 | 2 4 25 | | MAR. . | 29 20 29 | 29 19 25 |
| | ○ | { 16 23 41 | 17 4 19 | | APRIL | 28 9 13 | 28 8 32 |
| | MAY . | { 1 18 3 | 1 20 13 | | MAY . | 27 21 57 | 27 12 29 |
| | | { 31 6 47 | 31 11 29 | | JUNE . | 26 10 41 | 25 23 15 |
| | JUNE . | 29 19 31 | 30 1 38 | | JULY . | 25 23 25 | 25 12 31 |
| | JULY . | 29 8 15 | 29 14 27 | | ○ | { 9 17 47 | 9 18 53 |
| | AUG. . | 27 20 59 | 28 2 6 | | AUG. . | { 24 12 9 | 24 4 19 |
| | SEPT. . | 26 9 43 | 26 13 3 | | SEPT. . | 23 0 53 | 22 22 2 |
| | ○ | { 11 4 5 | 10 13 40 | | OCT. . | 22 13 37 | 22 16 30 |
| | OCT. . | { 25 22 27 | 25 23 47 | | NOV. . | 21 2 21 | 21 10 24 |
| | NOV. . | 24 11 11 | 24 10 34 | | DEC. . | 20 15 5 | 21 2 30 |
| | DEC. . | 23 23 55 | 23 21 23 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 356. F. March. d. h. m. 25 21 46 | JAN. . | d. h. m. 19 3 49 | d. h. m. 19 16 11 | B.C. 353. C.B. March. d. h. m. 25 15 13 | JAN. . | d. h. m. 16 18 59 | d. h. m. 16 19 12 |
| | ○ | { 2 22 11 | 2 17 20 | | FEB. . | 15 7 43 | 15 13 38 |
| | FEB. . | { 17 16 33 | 18 3 19 | | MAR. . | 15 20 27 | 16 6 33 |
| | MAR. . | 19 5 17 | 19 12 16 | | APRIL | 14 9 11 | 14 21 3 |
| | APRIL | 17 18 1 | 17 19 47 | | MAY . | { 13 21 55 | 14 8 53 |
| | MAY . | 17 6 45 | 17 2 49 | | ○ | { 28 16 17 | 28 6 35 |
| | JUNE . | 15 19 29 | 15 10 22 | | JUNE . | 12 10 39 | 12 18 29 |
| | JULY . | { 15 8 13 | 14 19 37 | | JULY . | 11 23 23 | 12 2 41 |
| | ○ | { 30 2 35 | 30 8 40 | | AUG. . | 10 12 7 | 10 10 35 |
| | AUG. . | 13 20 57 | 13 7 26 | | SEPT. . | 9 0 51 | 8 19 3 |
| | SEPT. . | 12 9 41 | 11 22 18 | | OCT. . | 8 13 35 | 8 4 51 |
| | OCT. . | 11 22 25 | 11 15 52 | | NOV. . | { 7 2 19 | 6 16 24 |
| | NOV. . | 10 11 9 | 10 11 4 | | ○ | { 21 20 41 | 22 5 51 |
| | DEC. . | 9 23 53 | 10 6 21 | | DEC. . | 6 15 3 | 6 5 51 |
| 355. E. 26 3 35 | JAN. . | { 8 12 38 | 9 0 6 | 352. A. 25 21 2 | JAN. . | 5 3 48 | 4 21 6 |
| | ○ | { 23 7 0 | 23 1 24 | | FEB. . | 3 16 32 | 3 13 39 |
| | FEB. . | 7 1 22 | 7 15 10 | | MAR. . | 5 5 16 | 5 6 46 |
| | MAR. . | 8 14 6 | 9 3 12 | | APRIL | 3 18 0 | 3 23 28 |
| | APRIL | 7 2 50 | 7 12 33 | | MAY . | { 3 6 44 | 3 14 51 |
| | MAY . | 6 15 34 | 6 20 2 | | ○ | { 18 1 6 | 17 18 50 |
| | JUNE . | 5 4 18 | 5 2 42 | | JUNE . | 1 19 28 | 2 4 21 |
| | JULY . | { 4 17 2 | 4 9 38 | | JULY . | { 1 8 12 | 1 15 53 |
| | ○ | { 19 11 24 | 19 15 45 | | ○ | { 30 20 56 | 31 1 58 |
| | AUG. . | 3 5 46 | 2 17 56 | | AUG. . | 29 9 40 | 29 11 21 |
| | SEPT. . | 1 18 30 | { 1 4 35 | | SEPT. . | 27 22 24 | 27 20 52 |
| | ○ | { 1 7 14 | { 30 18 12 | | OCT. . | 27 11 8 | 27 7 0 |
| | OCT. . | { 30 19 58 | 30 10 47 | | ○ | { 11 5 30 | 11 8 37 |
| | NOV. . | 29 8 42 | 29 5 33 | | NOV. . | { 25 23 52 | 25 18 1 |
| | DEC. . | 23 21 26 | 29 1 4 | | DEC. . | 25 12 36 | 25 6 1 |
| 354. D. 26 9 24 | JAN. . | 27 10 11 | 27 19 40 | 351. G. 26 2 51 | JAN. . | 24 1 20 | 23 19 2 |
| | FEB. . | 25 22 55 | 26 11 57 | | FEB. . | 22 14 4 | 22 9 4 |
| | MAR. . | 27 11 39 | 28 1 13 | | MAR. . | 24 2 48 | 24 0 4 |
| | APRIL | 26 0 23 | 26 11 34 | | APRIL | 22 15 32 | 22 15 37 |
| | MAY . | 25 13 7 | 25 19 45 | | ○ | { 7 9 54 | 7 11 33 |
| | JUNE . | 24 1 51 | 24 2 48 | | MAY . | { 22 4 16 | 22 7 9 |
| | JULY . | 23 14 35 | 23 9 52 | | JUNE . | 20 17 0 | 20 22 1 |
| | AUG. . | 22 3 19 | 21 17 55 | | JULY . | 20 5 44 | 20 11 42 |
| | SEPT. . | 20 16 3 | 20 3 52 | | AUG. . | 18 18 28 | 19 0 11 |
| | OCT. . | 20 4 47 | 19 16 18 | | SEPT. . | 17 7 12 | 17 11 43 |
| | NOV. . | 18 17 31 | 18 7 23 | | OCT. . | 16 19 56 | 16 22 45 |
| | ○ | { 3 11 53 | 3 19 50 | | NOV. . | 15 8 40 | 15 9 37 |
| | DEC. . | { 18 6 15 | 18 0 41 | | DEC. . | 14 21 24 | 14 20 28 |

JERUSALEM CIVIL TIME.

| Mean Jurnal Eclinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.C. 50. F. arch. h. m. 8 39 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 347. B. March. <i>d. h. m.</i> 26 2 6 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 10 9 | 13 7 20 | | JAN. . | 10 1 19 | 10 13 53 |
| | FEB. . | 11 22 53 | 11 18 20 | | FEB. . | 8 14 3 | 9 2 11 |
| | MAR. . | 13 11 37 | 13 5 51 | | MAR. . | 10 2 47 | 10 12 2 |
| | ○ | 28 5 59 | 28 19 2 | | APRIL | 8 15 31 | 8 20 1 |
| | APRIL | 12 0 21 | 11 18 20 | | MAY . | 8 4 15 | 8 3 3 |
| | MAY . | 11 13 5 | 11 8 3 | | JUNE . | 6 16 59 | 6 10 7 |
| | JUNE . | 10 1 49 | 9 22 56 | | JULY . | 6 5 43 | 5 18 22 |
| | JULY . | 9 14 33 | 9 14 30 | | AUG. . | 4 18 27 | 4 4 50 |
| | AUG. . | 8 3 17 | 8 6 4 | | SEPT. . | 3 7 11 | 2 18 13 |
| | SEPT. . | 6 16 1 | 6 21 4 | | OCT. . | 2 19 55 | 2 10 37 |
| | OCT. . | 6 4 45 | 6 11 8 | | Nov. . | 1 8 39 | 1 5 17 |
| | NOV. . | 4 17 29 | 5 0 8 | | DEC. . | 30 21 23 | 1 0 49 |
| | DEC. . | 4 6 13 | 4 12 5 | | | 30 10 7 | 30 19 31 |
| 49. E.D. | JAN. . | 2 18 58 | 2 23 6 | 346. A. | ○ | 14 4 29 | 13 23 33 |
| | FEB. . | 1 7 42 | 1 9 10 | | JAN. . | 28 22 52 | 29 12 0 |
| | | 1 20 26 | 1 18 38 | | FEB. . | 27 11 36 | 28 1 29 |
| 14 28 | MAR. ○ | 16 14 48 | 17 3 3 | 26 7 55 | MAR. . | 29 0 20 | 29 12 1 |
| | | 31 9 10 | 31 4 0 | | APRIL | 27 13 4 | 27 20 14 |
| | APRIL | 29 21 54 | 29 14 6 | | MAY . | 27 1 43 | 27 3 8 |
| | MAY . | 29 10 38 | 29 1 42 | | JUNE . | 25 14 32 | 25 9 48 |
| | JUNE . | 27 23 22 | 27 15 14 | | ○ | 10 8 54 | 10 11 47 |
| | JULY . | 27 12 6 | 27 6 41 | | JULY . | 25 3 16 | 24 17 21 |
| | AUG. . | 26 0 50 | 25 23 23 | | AUG. . | 23 16 0 | 23 2 43 |
| | ○ | 9 19 12 | 9 10 43 | | SEPT. . | 22 4 44 | 21 14 59 |
| | SEPT. . | 24 13 34 | 24 16 37 | | OCT. . | 21 17 28 | 21 6 10 |
| | OCT. . | 24 2 18 | 24 9 9 | | NOV. . | 20 6 12 | 19 23 59 |
| | NOV. . | 22 15 2 | 23 0 21 | | DEC. . | 19 18 56 | 19 19 17 |
| | DEC. . | 22 3 46 | 22 13 44 | | | | |
| 48. C. | JAN. . | 20 16 30 | 21 1 12 | 345. G.F. | ○ | 3 13 18 | 3 14 40 |
| | FEB. . | 19 5 14 | 19 10 55 | | JAN. . | 18 7 40 | 18 14 23 |
| | ○ | 5 23 36 | 6 4 23 | 25 13 44 | FEB. . | 16 20 21 | 17 7 56 |
| 20 17 | MAR. . | 20 17 58 | 20 19 20 | | MAR. . | 17 9 8 | 17 22 39 |
| | APRIL | 19 6 42 | 19 3 12 | | APRIL | 15 21 52 | 16 10 22 |
| | MAY . | 18 19 26 | 18 11 26 | | MAY . | 15 10 36 | 15 19 31 |
| | JUNE . | 17 8 10 | 16 21 4 | | JUNE . | 13 23 20 | 14 3 3 |
| | JULY . | 16 20 54 | 16 9 0 | | ○ | 28 17 42 | 28 12 24 |
| | AUG. . | 15 9 38 | 14 23 38 | | JULY . | 13 12 4 | 13 10 4 |
| | ○ | 30 4 0 | 30 3 11 | | AUG. . | 12 0 43 | 11 17 33 |
| | SEPT. . | 13 22 22 | 13 16 39 | | SEPT. . | 10 13 32 | 10 2 41 |
| | OCT. . | 13 11 6 | 13 11 6 | | OCT. . | 10 2 16 | 9 13 56 |
| | NOV. . | 11 23 50 | 12 5 33 | | NOV. . | 8 15 0 | 8 3 43 |
| | DEC. . | 11 12 34 | 11 22 54 | | DEC. . | 8 3 44 | 7 19 54 |
| | | | | | ○ | 22 22 6 | 23 6 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 344. E. March. <i>d. h. m.</i> 25 19 32 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 341. B.A. March. <i>d. h. m.</i> 25 12 59 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 6 16 29 | 6 13 49 | | JAN. . | 4 7 39 | 4 6 17 |
| | FEB. . | 5 5 13 | 5 8 17 | | FEB. . | 2 20 23 | 2 17 1 |
| | MAR. . | 6 17 57 | 7 1 54 | | MAR. . | 3 9 7 | 3 8 56 |
| | APRIL | 5 6 41 | 5 17 37 | | APRIL | { 1 21 51 | 1 15 35 |
| | MAY . | 4 19 25 | 5 6 46 | | ○ | { 16 16 13 | 17 3 37 |
| | JUNE . | { 3 8 9 | 3 17 28 | | MAY . | { 1 10 35 | 1 4 25 |
| | ○ | { 18 2 31 | 17 15 49 | | | { 30 23 19 | 30 18 38 |
| | JULY . | 2 20 53 | 3 2 22 | | JUNE . | 29 12 3 | 29 9 56 |
| | AUG. . | { 1 9 37 | 1 10 29 | | JULY . | 29 0 47 | 29 1 45 |
| | | { 30 22 21 | 30 18 46 | | AUG. . | 27 13 31 | 27 17 21 |
| | SEPT. . | 29 11 5 | 29 4 1 | | SEPT. . | 26 2 15 | 26 8 12 |
| | OCT. . | 28 23 49 | 28 14 45 | | ○ | { 10 20 37 | 10 7 37 |
| | NOV. . | 27 12 33 | 27 3 14 | | OCT. . | { 25 14 59 | 25 22 0 |
| | DEC. . | 27 1 17 | 26 17 27 | | NOV. . | 24 3 43 | 24 10 39 |
| | | | | | DEC. . | 23 16 27 | 23 22 10 |
| 343. D. 26 1 21 | JAN. . | 25 14 2 | 25 9 12 | 340. G. 25 18 48 | JAN. . | 22 5 11 | 22 8 38 |
| | FEB. . | 24 2 46 | 24 1 53 | | FEB. . | 20 17 55 | 20 18 4 |
| | MAR. . | 25 15 30 | 25 13 41 | | MAR. . | 22 6 39 | 22 3 9 |
| | APRIL | 24 4 14 | 24 10 42 | | APRIL | 20 19 23 | 20 12 33 |
| | MAY . | 23 16 58 | 24 1 10 | | MAY . | 20 8 7 | 19 23 6 |
| | JUNE . | 22 5 42 | 22 13 47 | | JUNE . | 18 20 51 | 18 11 32 |
| | JULY . | 21 18 26 | 22 0 44 | | JULY . | 18 9 35 | 18 2 6 |
| | AUG. . | 20 7 10 | 20 10 38 | | AUG. . | 16 22 19 | 16 18 26 |
| | SEPT. . | 18 19 54 | 18 20 15 | | SEPT. . | { 15 11 3 | 15 11 43 |
| | OCT. . | 18 8 38 | 18 6 13 | | ○ | { 30 5 25 | 29 19 52 |
| | NOV. . | 16 21 22 | 16 16 51 | | OCT. . | 14 23 47 | 15 4 59 |
| | DEC. . | 16 10 6 | 16 4 19 | | NOV. . | 13 12 31 | 13 21 9 |
| | | | | | DEC. . | 13 1 15 | 13 11 37 |
| 342. C. 26 7 10 | JAN. . | 14 22 50 | 14 16 37 | 339. F. 26 0 37 | JAN. . | 11 14 0 | 12 0 0 |
| | FEB. . | 13 11 34 | 13 5 52 | | FEB. . | 10 2 44 | 10 10 27 |
| | MAR. . | 15 0 18 | 14 20 6 | | MAR. . | 11 15 28 | 11 19 17 |
| | APRIL | { 13 13 2 | 13 11 11 | | APRIL | 10 4 12 | 10 8 7 |
| | ○ | { 23 7 24 | 23 11 54 | | MAY . | 9 16 56 | 9 10 52 |
| | MAY . | 13 1 46 | 13 2 40 | | JUNE . | 8 5 40 | 7 19 34 |
| | JUNE . | 11 14 30 | 11 17 58 | | JULY . | 7 18 24 | 7 6 14 |
| | JULY . | 11 3 14 | 11 8 26 | | AUG. . | { 6 7 8 | 5 19 31 |
| | AUG. . | 9 15 58 | 9 21 46 | | ○ | { 21 1 22 | 21 2 40 |
| | SEPT. . | 8 4 42 | 8 10 0 | | SEPT. . | 4 19 52 | 4 11 31 |
| | OCT. . | { 7 17 26 | 7 21 30 | | OCT. . | 4 8 36 | 4 5 34 |
| | ○ | { 22 11 43 | 22 2 32 | | NOV. . | 2 21 20 | 3 0 26 |
| | NOV. . | 6 6 10 | 6 8 38 | | DEC. . | { 2 10 4 | 2 18 37 |
| | DEC. . | 5 18 54 | 5 19 31 | | | { 31 22 43 | ... |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 338. E. March. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 335. A. March. <i>d. h. m.</i> 25 23 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>d. h. m.</i> 26 6 25 | JAN. . | { ... 30 11 32 | 1 10 53 31 0 30 | | JAN. . | 27 2 43 | 27 2 54 |
| | FEB. . | { ... 14 5 54 | ... | | FEB. . | 25 15 27 | 25 20 54 |
| | O | { 1 0 17 30 13 1 | 1 11 26 30 20 8 | | MAR. . | 27 4 11 | 27 13 32 |
| | MAR. . | 29 1 45 | 29 3 24 | | APRIL | 25 16 55 | 26 3 57 |
| | APRIL | 28 14 29 | 28 10 13 | | MAY . | 25 5 39 | 25 15 53 |
| | MAY . | 27 3 13 | 26 17 43 | | O | { 9 0 1 | 8 13 32 |
| | JUNE . | 26 15 57 | 26 2 57 | | JUNE . | { 23 18 23 | 24 1 42 |
| | O | { 10 10 19 | 10 16 9 | | JULY . | 23 7 7 | 23 10 26 |
| | AUG. . | { 25 4 41 | 24 14 54 | | AUG. . | 21 19 51 | 21 18 34 |
| | SEPT. . | 23 17 25 | 23 5 54 | | SEPT. . | 20 8 35 | 20 3 27 |
| | OCT. . | 23 6 9 | 22 23 40 | | OCT. . | 19 21 19 | 19 13 32 |
| | NOV. . | 21 18 53 | 21 19 1 | | NOV. . | 18 10 3 | 18 1 10 |
| | DEC. . | 21 7 37 | 21 14 23 | | O | { 3 4 25 | 3 14 16 |
| 337. D.C. | JAN. . | 19 20 21 | 20 8 5 | 334. G. 26 5 41 | JAN. . | 16 11 31 | 16 5 14 |
| <i>d. h. m.</i> 25 12 14 | O | { 3 14 43 | 3 9 42 | | FEB. . | 15 0 15 | 14 21 13 |
| | FEB. . | { 18 9 5 | 18 23 3 | | MAR. . | 16 12 59 | 16 13 49 |
| | MAR. . | 18 21 49 | 19 10 56 | | APRIL | 15 1 43 | 15 6 9 |
| | APRIL | 17 10 33 | 17 20 7 | | MAY . | { 14 14 27 | 14 21 26 |
| | MAY . | 16 23 17 | 17 3 29 | | O | { 29 8 49 | 29 2 9 |
| | JUNE . | 15 12 1 | 15 10 9 | | JUNE . | 18 3 11 | 18 11 5 |
| | JULY . | { 15 0 45 | 14 17 10 | | JULY . | 12 15 55 | 12 23 0 |
| | O | { 29 19 7 | 29 22 40 | | AUG. . | 11 4 39 | 11 9 34 |
| | AUG. . | 13 13 29 | 13 1 39 | | SEPT. . | 9 17 23 | 9 19 30 |
| | SEPT. . | 12 2 13 | 11 12 30 | | OCT. . | 9 6 7 | 9 5 27 |
| | OCT. . | 11 14 57 | 11 2 14 | | NOV. . | { 7 18 51 | 7 15 53 |
| | NOV. . | 10 3 41 | 9 18 51 | | O | { 22 13 13 | 22 16 35 |
| | DEC. . | 9 16 25 | 9 18 32 | | DEC. . | 7 7 35 | 7 2 56 |
| 336. B. | JAN. . | 8 5 10 | 8 8 54 | 333. F.E. 25 11 30 | JAN. . | 5 20 20 | 5 14 41 |
| <i>d. h. m.</i> 25 18 8 | FEB. . | 6 17 54 | 7 3 16 | | FEB. . | 4 9 4 | 4 3 11 |
| | MAR. . | 8 6 33 | 8 19 22 | | MAR. . | 4 21 43 | 4 16 36 |
| | APRIL | 6 19 22 | 7 8 30 | | APRIL | 3 10 32 | 3 7 1 |
| | MAY . | 6 8 6 | 6 18 49 | | MAY . | { 2 23 16 | 2 22 11 |
| | JUNE . | 4 20 50 | 5 3 5 | | O | { 17 17 33 | 17 19 1 |
| | JULY . | 4 9 34 | 4 10 13 | | JUNE . | 1 12 0 | 1 13 36 |
| | AUG. . | 2 22 18 | 2 17 37 | | JULY . | { 1 0 44 | 1 4 40 |
| | SEPT. . | { 1 11 2 | 1 2 0 | | AUG. . | { 30 18 28 | 30 18 47 |
| | OCT. . | { 30 23 46 | 30 12 12 | | SEPT. . | 29 2 12 | 29 7 51 |
| | NOV. . | 30 12 30 | 30 0 45 | | OCT. . | 27 14 56 | 27 19 58 |
| | NOV. . | 29 1 14 | 28 15 44 | | NOV. . | 27 3 40 | 27 7 29 |
| | O | { 13 19 36 | 14 4 39 | | DEC. . | 25 16 24 | 25 18 36 |
| | DEC. . | { 23 13 58 | 23 8 45 | | | 25 5 8 | 25 5 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 332. D. March. <i>d. h. m.</i> 25 17 18 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 329. A.G. March. <i>d. h. m.</i> 25 10 45 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 17 53 | 23 15 56 | | JAN. . | 21 9 3 | 21 22 13 |
| | FEB. . | 22 6 37 | 22 2 27 | | FEB. . | 19 21 47 | 20 10 22 |
| | MAR. . | 23 19 21 | 23 13 23 | | MAR. . | 20 10 31 | 20 19 57 |
| | APRIL | 22 8 5 | 22 1 19 | | APRIL | 18 23 15 | 19 3 42 |
| | MAY . | 21 20 49 | 21 14 39 | | MAY . | 18 11 59 | 18 10 32 |
| | JUNE . | 20 9 33 | 20 5 25 | | JUNE . | 17 0 43 | 16 17 29 |
| | JULY . | 19 22 17 | 19 21 10 | | JULY . | 16 13 27 | 16 1 45 |
| | AUG. . | 18 11 1 | 18 13 11 | | AUG. . | 15 2 11 | 14 12 18 |
| | SEPT. . | 16 23 45 | 17 4 46 | | SEPT. . | 13 14 55 | 13 1 50 |
| | OCT. . | 16 12 29 | 16 19 24 | | OCT. . | 13 3 39 | 12 18 23 |
| | NOV. . | 15 1 13 | 15 8 50 | | NOV. . | 11 16 23 | 11 13 12 |
| | DEC. . | 14 13 57 | 14 20 59 | | DEC. . | 11 5 7 | 11 8 49 |
| 331. C. 25 23 7 | JAN. . | 13 2 41 | 13 7 52 | 328. F. 25 16 34 | JAN. . | { 9 17 51 | 10 3 31 |
| | FEB. . | 11 15 25 | 11 17 37 | | ○ | { 24 12 13 | 24 8 9 |
| | MAR. . | { 13 4 9 | 13 2 37 | | FEB. . | 8 6 35 | 8 19 53 |
| | ○ | { 27 22 31 | 28 10 10 | | MAR. . | 9 19 19 | 10 9 12 |
| | APRIL | 11 16 53 | 11 11 30 | | APRIL | 8 8 3 | 8 19 35 |
| | MAY . | 11 5 37 | 10 21 10 | | MAY . | 7 20 47 | 8 3 42 |
| | JUNE . | 9 13 21 | 9 8 23 | | JUNE . | 6 9 31 | 6 10 34 |
| | JULY . | 9 7 5 | 8 21 55 | | JULY . | { 5 22 15 | 5 17 19 |
| | AUG. . | 7 19 49 | 7 13 31 | | ○ | { 20 16 37 | 20 18 31 |
| | SEPT. . | { 6 8 33 | 6 6 39 | | AUG. . | 4 10 59 | 4 1 3 |
| | ○ | { 21 2 55 | 20 19 4 | | SEPT. . | 2 23 43 | 2 10 42 |
| | OCT. . | 5 21 17 | 6 0 18 | | OCT. . | 2 12 27 | { 1 23 2 |
| | NOV. . | 4 10 1 | 4 17 22 | | NOV. . | { 1 1 11 | { 31 14 18 |
| | DEC. . | 3 22 45 | 4 8 54 | | DEC. . | { 30 13 55 | 30 8 3 |
| | | | | | | 30 2 39 | 30 3 11 |
| 330. B. 26 4 56 | JAN. . | 2 11 30 | 2 22 54 | 327. E. 25 22 23 | ○ | { 13 21 2 | 13 23 26 |
| | FEB. . | 1 0 14 | 1 9 43 | | JAN. . | { 28 15 24 | 28 22 7 |
| | MAR. . | { 2 12 58 | 2 19 9 | | FEB. . | 27 4 8 | 27 15 22 |
| | ○ | { 17 7 20 | 17 11 23 | | MAR. . | 28 16 52 | 29 5 55 |
| | APRIL | { 1 1 42 | 1 3 11 | | APRIL | 27 5 36 | 27 17 35 |
| | MAY . | { 30 14 26 | 30 10 41 | | MAY . | 26 18 20 | 27 2 47 |
| | JUNE . | 30 3 10 | 29 13 39 | | JUNE . | 25 7 4 | 25 10 28 |
| | JULY . | 28 15 54 | 28 4 7 | | ○ | { 10 1 26 | 9 19 0 |
| | AUG. . | 28 4 33 | 27 16 4 | | JULY . | { 24 19 48 | 24 17 45 |
| | ○ | { 10 11 44 | 10 11 26 | | AUG. . | 23 8 32 | 23 1 39 |
| | SEPT. . | { 25 6 6 | 25 0 5 | | SEPT. . | 21 21 16 | 21 11 0 |
| | OCT. . | 24 18 50 | 24 18 54 | | OCT. . | 21 10 0 | 20 22 25 |
| | NOV. . | 23 7 34 | 23 13 45 | | NOV. . | 19 22 44 | 19 12 11 |
| | DEC. . | 22 20 18 | 23 7 12 | | DEC. . | 19 11 28 | 19 4 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 326. D. March. d. h. m. 26 4 11 | | d. h. m. | d. h. m. | B.C. 323. G. March. d. h. m. 25 21 38 | | d. h. m. | d. h. m. |
| | ○ | { 3 5 50 | 3 14 58 | | JAN. . | 14 15 22 | 14 15 2 |
| | JAN. . | { 18 0 12 | 17 21 40 | | FEB. . | 13 4 6 | 13 1 19 |
| | FEB. . | 16 12 56 | 16 15 40 | | MAR. . | 14 16 50 | 14 11 41 |
| | MAR. . | 18 1 40 | 18 8 57 | | APRIL | { 13 5 34 | 12 22 46 |
| | APRIL | 16 14 24 | 17 0 27 | | ○ | { 27 23 56 | 28 10 57 |
| | MAY . | 16 3 8 | 16 13 38 | | MAY . | 12 18 18 | 12 11 9 |
| | JUNE . | { 14 15 52 | 15 0 33 | | JUNE . | 11 7 2 | 11 1 8 |
| | ○ | { 29 10 14 | 28 22 43 | | JULY . | 10 19 46 | 10 16 29 |
| | JULY . | 14 4 36 | 14 9 48 | | AUG. . | 9 8 30 | 9 8 37 |
| | AUG. . | 12 17 20 | 12 18 18 | | SEPT. . | 7 21 14 | 8 0 47 |
| | SEPT. . | 11 6 4 | 11 3 1 | | OCT. . | { 7 9 58 | 7 16 15 |
| | OCT. . | 10 18 48 | 10 12 37 | | ○ | { 22 4 20 | 21 15 57 |
| | NOV. . | 9 7 32 | 8 23 32 | | NOV. . | 5 22 42 | 6 6 32 |
| | DEC. . | 8 20 16 | 8 11 55 | | DEC. . | 5 11 26 | 5 19 29 |
| 325. C.B. 25 10 0 | JAN. . | 7 9 1 | 7 1 49 | 322. F. 26 3 27 | JAN. . | 4 0 11 | 4 6 59 |
| | FEB. . | 5 21 45 | 5 17 0 | | FEB. . | 2 12 55 | 2 17 9 |
| | MAR. . | 6 10 29 | 6 9 6 | | MAR. . | 4 1 39 | 4 2 15 |
| | APRIL | 4 23 13 | 5 1 26 | | APRIL | 2 14 23 | 2 10 51 |
| | MAY . | 4 11 57 | 4 17 15 | | MAY . | { 2 3 7 | 1 19 48 |
| | JUNE . | 3 0 41 | 3 7 48 | | | { 31 15 51 | 31 6 1 |
| | JULY . | 2 13 25 | 2 20 43 | | JUNE . | 30 4 35 | 29 18 18 |
| | AUG. . | { 1 2 9 | 1 8 8 | | JULY . | 29 17 19 | 29 8 53 |
| | | { 30 14 53 | 30 18 31 | | AUG. . | 28 6 3 | 28 1 31 |
| | SEPT. . | 29 3 37 | 29 4 41 | | SEPT. . | 26 18 47 | 26 19 16 |
| | OCT. . | 28 16 21 | 28 15 1 | | ○ | { 11 13 9 | 11 4 26 |
| | NOV. . | 27 5 5 | 27 1 47 | | OCT. . | { 26 7 31 | 26 13 0 |
| | DEC. . | 26 17 49 | 26 13 6 | | NOV. . | 24 20 15 | 25 5 35 |
| 324. A. 25 15 49 | JAN. . | 25 6 34 | 25 1 0 | 321. E.D. 25 9 16 | DEC. . | 24 8 59 | 24 20 13 |
| | FEB. . | 23 19 18 | 23 13 40 | | JAN. . | 22 21 44 | 23 8 36 |
| | MAR. . | 25 8 2 | 25 3 17 | | FEB. . | 21 10 28 | 21 18 47 |
| | APRIL | 23 20 46 | 23 17 52 | | MAR. . | 21 23 12 | 22 3 15 |
| | ○ | { 8 15 8 | 8 19 25 | | APRIL | 20 11 56 | 20 10 45 |
| | MAY . | { 23 9 30 | 23 9 8 | | MAY . | 20 0 40 | 19 18 12 |
| | JUNE . | 21 22 14 | 22 0 29 | | JUNE . | 18 13 24 | 18 2 42 |
| | JULY . | 21 10 58 | 21 15 18 | | JULY . | 18 2 8 | 17 13 19 |
| | AUG. . | 19 23 42 | 20 5 10 | | AUG. . | { 16 14 52 | 16 2 41 |
| | SEPT. . | 18 12 26 | 18 18 2 | | ○ | { 31 9 14 | 31 10 52 |
| | OCT. . | 18 1 10 | 18 6 5 | | SEPT. . | 15 3 36 | 14 18 54 |
| | ○ | { 1 19 32 | 1 10 32 | | OCT. . | 14 16 20 | 14 13 14 |
| | NOV. . | { 16 13 54 | 16 17 31 | | NOV. . | 13 5 4 | 13 8 25 |
| | DEC. . | 16 2 38 | 16 4 30 | | DEC. . | 12 17 48 | 13 2 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 320. C. March. d. h. m. 25 15 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 317. G.F. March. d. h. m. 25 8 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 6 32 | 11 19 10 | | JAN. . | 8 21 42 | 8 16 47 |
| | FEB. . | 9 19 16 | 10 8 41 | | FEB. . | 7 10 26 | 7 10 27 |
| | ○ | 24 13 38 | 24 8 41 | | MAR. . | 7 23 10 | 8 4 1 |
| | MAR. . | 11 8 0 | 11 19 24 | | APRIL | 6 11 54 | 6 20 24 |
| | APRIL | 9 20 44 | 10 3 50 | | MAY . | 6 0 38 | 6 10 45 |
| | MAY . | 9 9 28 | 9 10 53 | | JUNE . | 4 13 22 | 4 22 49 |
| | JUNE . | 7 22 12 | 7 17 36 | | ○ | 19 7 44 | 18 20 30 |
| | JULY . | 7 10 56 | 7 1 5 | | JULY . | 4 2 6 | 4 8 57 |
| | AUG. . | 5 23 40 | 5 10 25 | | AUG. . | 2 14 50 | 2 17 55 |
| | ○ | 20 18 2 | 20 23 42 | | SEPT. . | 1 3 34 | 1 2 40 |
| | SEPT. . | 4 12 24 | 3 22 30 | | ○ | 30 16 18 | 30 11 57 |
| | OCT. . | 4 1 8 | 3 13 40 | | OCT. . | 30 5 2 | 29 22 18 |
| | NOV. . | 2 13 52 | 2 7 33 | | NOV. . | 28 17 46 | 28 9 57 |
| | DEC. . | 2 2 36 | 2 3 0 | | ○ | 13 12 8 | 13 22 38 |
| | ○ | 31 15 20 | 31 22 20 | | DEC. . | 28 6 30 | 27 22 57 |
| 319. B. | JAN. . | 30 4 5 | 30 15 59 | 316. E. | JAN. . | 26 19 15 | 26 13 17 |
| | ○ | 13 22 27 | 13 17 53 | | FEB. . | 25 7 59 | 25 4 42 |
| | FEB. . | 28 16 49 | 1 6 47 | | MAR. . | 26 20 43 | 26 20 45 |
| 25 20 53 | MAR. . | 30 5 33 | 30 18 30 | 25 14 20 | APRIL | 25 9 27 | 25 12 47 |
| | APRIL | 28 18 17 | 29 3 35 | | MAY . | 24 22 11 | 25 4 0 |
| | MAY . | 28 7 1 | 28 10 55 | | ○ | 8 16 33 | 8 9 29 |
| | JUNE . | 26 19 45 | 26 17 39 | | JUNE . | 23 10 55 | 23 17 51 |
| | JULY . | 26 8 29 | 26 0 51 | | JULY . | 22 23 39 | 23 6 12 |
| | ○ | 10 2 51 | 10 5 40 | | AUG. . | 21 12 23 | 21 17 20 |
| | AUG. . | 24 21 13 | 24 9 33 | | SEPT. . | 20 1 7 | 20 3 48 |
| | SEPT. . | 23 9 57 | 22 20 35 | | OCT. . | 19 13 51 | 19 14 11 |
| | OCT. . | 22 22 41 | 22 10 25 | | NOV. . | 18 2 35 | 18 0 49 |
| | NOV. . | 21 11 25 | 21 3 1 | | ○ | 2 20 57 | 3 0 38 |
| | DEC. . | 21 0 9 | 20 21 31 | | DEC. . | 17 15 19 | 17 11 49 |
| 318. A. | JAN. . | 19 12 54 | 19 16 38 | 315. D. | JAN. . | 16 4 4 | 15 23 16 |
| | FEB. . | 18 1 38 | 18 10 45 | | FEB. . | 14 16 48 | 14 11 14 |
| 26 2 42 | MAR. . | 19 14 22 | 20 2 37 | 25 20 9 | MAR. . | 16 5 32 | 16 0 2 |
| | APRIL | 18 3 6 | 18 15 41 | | APRIL | 14 18 16 | 14 13 53 |
| | MAY . | 17 15 50 | 18 2 2 | | MAY . | 14 7 0 | 14 4 43 |
| | JUNE . | 16 4 34 | 16 10 25 | | ○ | 29 1 22 | 29 2 29 |
| | JULY . | 15 17 18 | 15 17 54 | | JUNE . | 12 19 44 | 12 20 4 |
| | AUG. . | 14 6 2 | 14 1 32 | | JULY . | 12 8 28 | 12 11 20 |
| | SEPT. . | 12 18 46 | 12 10 14 | | AUG. . | 10 21 12 | 11 1 58 |
| | OCT. . | 12 7 30 | 11 20 41 | | SEPT. . | 9 9 56 | 9 15 38 |
| | NOV. . | 10 20 14 | 10 9 18 | | OCT. . | 8 22 40 | 9 4 20 |
| | DEC. . | 10 8 58 | 10 0 7 | | NOV. . | 7 11 24 | 7 16 16 |
| | ○ | 25 3 20 | 25 13 23 | | DEC. . | 7 0 8 | 7 3 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 314. C. March. d. h. m. 26 1 57 | JAN. . | d. h. m. 5 12 52 | d. h. m. 5 14 14 | B.C. 311. F. March. d. h. m. 25 19 24 | JAN. . | d. h. m. { 2 4 1 31 16 46 | d. h. m. { 2 15 24 ... |
| | FEB. . | 4 1 36 | 4 0 27 | | FEB. . | ... | 1 6 22 |
| | MAR. . | 5 14 20 | 5 10 26 | | MAR. . | { 2 5 30 31 18 14 | { 2 18 22 1 3 44 |
| | APRIL . | 4 3 4 | 3 20 48 | | APRIL . | 30 6 58 | { 30 11 15 29 17 57 |
| | MAY . | 3 15 48 | 3 8 14 | | MAY . | 29 19 42 | 29 17 57 |
| | JUNE . | 2 4 32 | 1 21 15 | | JUNE . | 28 8 26 | 28 0 54 |
| | JULY . | { 1 17 16 31 6 0 | 1 11 56 31 3 53 | | JULY . | 27 21 10 | 27 9 13 |
| | AUG. . | 29 18 44 | 29 20 22 | | AUG. . | 26 9 54 | 25 19 55 |
| | SEPT. . | 28 7 28 | 28 12 33 | | SEPT. . | 24 22 33 | 24 9 36 |
| | OCT. . | 27 20 12 | 28 3 45 | | OCT. . | 24 11 22 | 24 2 17 |
| | NOV. . | 26 8 56 | 26 17 34 | | NOV. . | 23 0 6 | 22 21 10 |
| | DEC. . | 25 21 40 | 26 5 49 | | DEC. . | 22 12 50 | 22 16 45 |
| 313. B.A. 25 7 46 | JAN. . | 24 10 25 | 24 16 33 | 310. E. 26 1 13 | JAN. . | 21 1 35 | 21 11 23 |
| | FEB. . | 22 23 9 | 23 1 57 | | ○ | { 4 19 57 19 14 19 | { 4 16 34 20 3 37 |
| | MAR. . | 23 11 53 | 23 10 30 | | MAR. . | 21 3 3 | 21 16 47 |
| | ○ | { 7 6 15 22 0 87 | 7 17 8 21 18 56 | | APRIL . | 19 15 47 | 20 3 2 |
| | APRIL . | 22 0 87 | 21 18 56 | | MAY . | 19 4 31 | 19 11 5 |
| | MAY . | 21 18 21 | 21 4 13 | | JUNE . | 17 17 15 | 17 18 2 |
| | JUNE . | 20 2 5 | 19 15 17 | | JULY . | 17 5 59 | 17 0 57 |
| | JULY . | 19 14 49 | 19 4 42 | | AUG. . | 15 18 43 | 15 8 54 |
| | AUG. . | 18 3 33 | 17 20 29 | | SEPT. . | 14 7 27 | 13 18 47 |
| | SEPT. . | 16 16 17 | 16 14 0 | | OCT. . | 13 20 11 | 13 7 16 |
| | ○ | { 1 10 39 16 5 1 | 1 3 35 16 8 8 | | NOV. . | 12 8 55 | 11 22 33 |
| | OCT. . | 16 5 1 | 16 8 8 | | DEC. . | 11 21 39 | 11 16 9 |
| | NOV. . | 14 17 45 | 15 1 33 | | | | |
| | DEC. . | 14 6 29 | 14 17 27 | | | | |
| 312. G. 25 13 35 | JAN. . | 12 19 13 | 13 6 57 | 309. D.C. 25 7 2 | JAN. . | { 10 10 23 25 4 45 | 10 10 59 25 8 7 |
| | FEB. . | 11 7 57 | 11 18 7 | | FEB. . | 8 23 7 | 9 5 87 |
| | MAR. . | { 12 20 41 27 15 3 | 13 3 12 27 18 15 | | MAR. . | 9 11 51 | 9 22 87 |
| | ○ | 27 15 3 | 27 18 15 | | APRIL . | 8 0 35 | 8 13 8 |
| | APRIL . | 11 9 25 | 11 10 54 | | MAY . | 7 13 19 | 8 0 42 |
| | MAY . | 10 22 9 | 10 13 6 | | JUNE . | 6 2 3 | 6 10 1 |
| | JUNE . | 9 10 53 | 9 1 52 | | JULY . | { 5 14 47 20 9 9 | { 5 17 56 20 1 39 |
| | JULY . | 8 23 37 | 8 11 15 | | ○ | 20 9 9 | 20 1 39 |
| | AUG. . | 7 12 21 | 6 23 13 | | AUG. . | 4 3 31 | 4 1 33 |
| | SEPT. . | { 6 1 5 20 19 27 | 5 14 7 20 19 47 | | SEPT. . | 2 16 15 | 2 9 47 |
| | ○ | 20 19 27 | 20 19 47 | | OCT. . | { 2 4 59 31 17 43 | { 1 19 26 31 7 0 |
| | OCT. . | 5 13 49 | 5 7 40 | | NOV. . | 30 6 27 | 29 20 42 |
| | NOV. . | 4 2 33 | 4 2 46 | | DEC. . | 29 19 11 | 29 12 20 |
| | DEC. . | 3 15 17 | 3 21 51 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 308. B. March. d. h. m. 25 12 50 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 305. F.E. March. d. h. m. 25 6 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 13 18 33 | 13 23 38 | | JAN. . | 25 23 6 | 25 23 42 |
| | JAN. . | { 28 7 56 | 28 5 23 | | FEB. . | 24 11 50 | 24 9 31 |
| | FEB. . | 26 20 40 | 26 22 55 | | MAR. . | 25 0 34 | 24 19 20 |
| | MAR. . | 28 9 24 | 28 15 52 | | APRIL | 23 13 18 | 23 5 55 |
| | APRIL | 26 22 8 | 27 7 14 | | ○ | { 8 7 40 | 8 18 14 |
| | MAY . | 26 10 52 | 26 20 23 | | MAY . | { 23 2 2 | 22 17 53 |
| | JUNE . | 24 23 36 | 25 7 33 | | JUNE . | 21 14 46 | 21 7 40 |
| | ○ | { 9 17 58 | 9 5 42 | | JULY . | 21 3 30 | 20 23 7 |
| | JULY . | { 24 12 20 | 24 17 17 | | AUG. . | 19 16 14 | 19 15 38 |
| | AUG. . | 23 1 4 | 23 2 17 | | SEPT. . | 18 4 58 | 18 8 20 |
| | SEPT. . | 21 13 48 | 21 11 25 | | OCT. . | 17 17 42 | 18 0 23 |
| | OCT. . | 21 2 32 | 20 21 21 | | ○ | { 1 12 4 | 1 0 25 |
| | NOV. . | 19 15 16 | 19 8 23 | | NOV. . | { 16 6 26 | 16 15 8 |
| | DEC. . | 19 4 0 | 18 20 38 | | DEC. . | 15 19 10 | 16 4 17 |
| 307. A. 25 18 39 | JAN. . | 17 16 45 | 17 10 6 | 304. D. 25 12 6 | JAN. . | 14 7 55 | 14 15 44 |
| | FEB. . | 16 5 29 | 16 0 42 | | FEB. . | 12 20 39 | 13 1 36 |
| | MAR. . | 17 18 13 | 17 16 13 | | MAR. . | 14 9 23 | 14 10 18 |
| | APRIL | 16 6 57 | 16 8 9 | | APRIL | { 12 22 7 | 12 18 28 |
| | MAY . | 15 19 41 | 15 23 46 | | ○ | { 27 16 29 | 28 3 27 |
| | JUNE . | 14 8 25 | 14 14 26 | | MAY . | 12 10 51 | 12 3 1 |
| | JULY . | 13 21 9 | 14 3 42 | | JUNE . | 10 23 35 | 10 12 53 |
| | AUG. . | 12 9 53 | 12 15 39 | | JULY . | 10 12 19 | 10 1 7 |
| | SEPT. . | 10 22 37 | 11 2 40 | | AUG. . | 9 1 3 | 8 15 43 |
| | OCT. . | 10 11 21 | 10 13 17 | | SEPT. . | 7 13 47 | 7 8 43 |
| | NOV. . | 9 0 5 | 8 23 55 | | OCT. . | { 7 2 31 | 7 2 55 |
| | DEC. . | 8 12 49 | 8 10 46 | | ○ | { 21 20 53 | 21 13 8 |
| 306. G. 26 0 28 | JAN. . | 7 1 33 | 6 21 51 | 303. C. 25 17 55 | JAN. . | 3 16 43 | 4 4 46 |
| | FEB. . | 5 14 17 | 5 9 17 | | FEB. . | 2 5 27 | 2 17 2 |
| | MAR. . | 7 3 1 | 6 21 20 | | MAR. . | 3 18 11 | 4 2 56 |
| | APRIL | 5 15 45 | 5 10 21 | | APRIL | 2 6 55 | 2 11 5 |
| | MAY . | { 5 4 29 | 5 0 30 | | MAY . | { 1 19 39 | 1 18 16 |
| | ○ | { 19 22 51 | 20 2 51 | | ○ | { 31 8 23 | 31 1 31 |
| | JUNE . | 3 17 13 | 3 15 33 | | JUNE . | 29 21 7 | 29 9 55 |
| | JULY . | 3 5 57 | 3 7 1 | | JULY . | 29 9 51 | 28 20 30 |
| | ○ | { 1 18 41 | 1 22 13 | | AUG. . | 27 22 35 | 27 9 59 |
| | AUG. . | { 31 7 25 | 31 12 40 | | SEPT. . | 26 11 19 | 26 2 25 |
| | SEPT. . | 29 20 9 | 30 2 10 | | OCT. . | 26 0 3 | 25 21 0 |
| | OCT. . | 29 8 53 | 29 14 42 | | NOV. . | 24 12 47 | 24 16 24 |
| | ○ | { 13 3 15 | 12 18 37 | | DEC. . | 24 1 31 | 24 10 53 |
| | NOV. . | { 27 21 37 | 28 2 26 | | | | |
| | DEC. . | 27 10 21 | 27 13 24 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| B.C. 302. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 299. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | 22 14 16 | 23 3 18 | E. | ○ | { 4 11 3 | 4 22 2 |
| March. | FEB. . | 21 3 0 | 21 16 48 | March. | JAN. . | { 19 5 26 | 19 0 43 |
| <i>d. h. m.</i> | ○ | { 7 21 22 | 7 16 11 | <i>d. h. m.</i> | FEB. . | 17 18 10 | 17 17 51 |
| 25 23 43 | MAR. . | { 22 15 44 | 23 3 13 | 25 17 10 | MAR. . | 19 6 54 | 19 11 1 |
| | APRIL | 21 4 28 | 21 11 27 | | APRIL | 17 19 38 | 18 3 9 |
| | MAY . | 20 17 12 | 20 18 22 | | MAY . | 17 8 22 | 17 17 30 |
| | JUNE . | 19 5 56 | 19 1 3 | | JUNE . | { 15 21 6 | 16 5 46 |
| | JULY . | 18 18 40 | 18 8 35 | | ○ | { 30 15 28 | 30 3 34 |
| | AUG. . | 17 7 24 | 16 18 4 | | JULY . | 15 9 50 | 15 16 16 |
| | ○ | { 1 1 46 | 1 7 24 | | AUG. . | 13 22 34 | 14 1 43 |
| | SEPT. . | { 15 20 8 | 15 6 17 | | SEPT. . | 12 11 18 | 12 10 55 |
| | OCT. . | 15 8 52 | 14 21 35 | | OCT. . | 12 0 2 | 11 20 37 |
| | NOV. . | 13 21 36 | 13 15 32 | | NOV. . | 10 12 46 | 10 7 10 |
| | DEC. . | 13 10 20 | 13 10 57 | | DEC. . | { 10 1 30 | 9 18 46 |
| | | | | | ○ | { 24 19 52 | 25 6 6 |
| 301. | JAN. . | 11 23 5 | 12 6 13 | 298. | JAN. . | 8 14 14 | 8 7 27 |
| A.G. | FEB. . | { 10 11 49 | 10 23 41 | D. | FEB. . | 7 2 58 | 6 21 13 |
| | ○ | { 25 6 11 | 25 1 59 | 25 22 59 | MAR. . | 8 15 42 | 8 12 1 |
| 25 5 32 | MAR. . | 11 0 33 | 11 14 20 | | APRIL | 7 4 26 | 7 3 33 |
| | APRIL | 9 13 17 | 10 1 57 | | MAY . | 6 17 10 | 6 19 17 |
| | MAY . | 9 2 1 | 9 10 58 | | JUNE . | { 5 5 54 | 5 10 30 |
| | JUNE . | 7 14 45 | 7 18 21 | | ○ | { 20 0 16 | 19 16 50 |
| | JULY . | 7 3 29 | 7 1 12 | | JULY . | 4 18 33 | 5 0 38 |
| | AUG. . | { 5 16 13 | 5 8 38 | | AUG. . | 3 7 22 | 3 13 28 |
| | ○ | { 20 10 35 | 20 12 47 | | SEPT. . | 1 20 6 | 2 1 10 |
| | SEPT. . | 4 4 57 | 3 17 36 | | OCT. . | { 1 8 50 | 1 12 11 |
| | OCT. . | 3 17 41 | 3 4 49 | | { 30 21 34 | 30 22 59 | |
| | NOV. . | 2 6 25 | 1 18 44 | | NOV. . | 29 10 18 | 29 9 48 |
| | DEC. . | { 1 19 9 | 1 11 13 | | ○ | { 14 4 40 | 14 8 35 |
| | | { 31 7 53 | 31 5 28 | | DEC. . | { 23 23 2 | 23 20 41 |
| 300. | JAN. . | 29 20 37 | 30 0 12 | 297. | JAN. . | 27 11 47 | 27 7 45 |
| F. | FEB. . | 28 9 21 | 28 13 1 | C.B. | FEB. . | 26 0 81 | 25 19 10 |
| 25 11 21 | MAR. . | 29 22 5 | 30 9 44 | 25 4 48 | MAR. . | 26 13 15 | 26 7 21 |
| | APRIL | 28 10 49 | 28 22 43 | | APRIL | 25 1 59 | 24 20 41 |
| | MAY . | 27 23 33 | 28 9 10 | | MAY . | 24 14 43 | 24 11 11 |
| | JUNE . | 26 12 17 | 26 17 46 | | ○ | { 8 9 5 | 8 9 55 |
| | JULY . | 26 1 1 | 26 1 33 | | JUNE . | { 23 3 27 | 23 2 31 |
| | AUG. . | 24 13 45 | 24 9 34 | | JULY . | 22 16 11 | 22 13 5 |
| | SEPT. . | 23 2 29 | 22 13 36 | | AUG. . | 21 4 55 | 21 9 13 |
| | OCT . | 22 15 13 | 22 5 17 | | SEPT. . | 19 17 39 | 19 23 30 |
| | NOV. . | 21 3 57 | 20 17 55 | | OCT. . | 19 6 23 | 19 12 47 |
| | DEC. . | 20 16 41 | 20 8 30 | | NOV. . | 17 19 7 | 18 1 5 |
| | | | | | DEC. . | 17 7 51 | 17 12 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 296. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 293. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 25 10 36 | JAN. . | 15 20 36 | 15 23 1 | E.D. March. <i>d. h. m.</i> 25 4 3 | JAN. . | 13 11 46 | 13 23 32 |
| | FEB. . | 14 9 20 | 14 8 50 | | FEB. . | 12 0 30 | 12 14 23 |
| | MAR. . | 15 22 4 | 15 18 19 | | MAR. . | 12 13 14 | 13 2 12 |
| | APRIL . | 14 10 48 | 14 4 9 | | ○ | 27 7 36 | 27 2 50 |
| | MAY . | 13 23 32 | 13 15 7 | | APRIL . | 11 1 53 | 11 11 23 |
| | JUNE . | 12 12 16 | 12 8 53 | | MAY . | 10 14 42 | 10 18 45 |
| | JULY . | 12 1 0 | 11 18 33 | | JUNE . | 9 3 26 | 9 1 24 |
| | AUG. . | 10 13 44 | 10 10 44 | | JULY . | 8 16 10 | 8 8 24 |
| | SEPT. . | 9 2 28 | 9 3 43 | | AUG. . | 7 4 54 | 6 16 51 |
| | OCT. . | 8 15 12 | 8 20 27 | | SEPT. . | 5 17 38 | 5 8 42 |
| | NOV. . | 7 3 56 | 7 12 9 | | OCT. . | 5 6 22 | 4 17 33 |
| | DEC. . | 6 16 40 | 7 2 17 | | NOV. . | 3 19 6 | 3 10 18 |
| | | | | | DEC. . | 3 7 50 | 3 5 9 |
| 295. | JAN. . | 5 5 24 | 5 14 35 | 292. | JAN. . | { 1 20 34 | 2 0 38 |
| G. 25 16 25 | FEB. . | 3 18 8 | 4 1 6 | C. | FEB. ○ | { 31 9 18 | 31 19 4 |
| | MAR. . | 5 6 52 | 5 10 7 | | | 15 3 40 | 15 0 50 |
| | APRIL { | 3 19 36 | 3 18 14 | 25 9 52 | MAR. . | { 1 22 2 | 2 11 9 |
| | ○ | { 18 13 58 | 19 0 1 | | | 31 10 46 | { 1 0 12 |
| | MAY . | 3 8 20 | 3 2 17 | | APRIL | 29 23 30 | { 30 10 22 |
| | JUNE . | 1 21 4 | { 1 11 17 | | MAY . | 29 12 14 | 29 18 27 |
| | JULY . | { 1 9 48 | { 30 22 11 | | JUNE . | 28 0 58 | 28 1 30 |
| | | { 30 22 32 | 30 11 37 | | JULY . | 27 13 42 | 27 8 39 |
| | AUG. . | 29 11 16 | 29 3 36 | | AUG. . | 26 2 26 | 25 16 51 |
| | SEPT. . | 28 0 0 | 27 21 28 | | SEPT. . | 24 15 10 | 24 2 59 |
| | ○ | { 12 18 22 | 12 12 12 | | OCT. . | 24 3 54 | 23 15 36 |
| | OCT. . | { 27 12 44 | 27 16 1 | | NOV. . | 22 16 38 | 22 6 50 |
| | NOV. . | 26 1 28 | 26 9 52 | | DEC. . | 22 5 22 | 22 0 12 |
| | DEC. . | 25 14 12 | 26 1 54 | | | | |
| 294. | JAN. . | 24 2 57 | 24 15 24 | 291. | JAN. . | 20 18 7 | 20 18 43 |
| F. 25 22 14 | FEB. . | 22 15 41 | 23 2 20 | B. | ○ | { 4 12 29 | 4 16 40 |
| | MAR. . | 24 4 25 | 24 11 8 | | FEB. . | { 19 6 51 | 19 18 0 |
| | ○ | { 7 22 47 | 8 1 2 | 25 15 40 | MAR. . | 20 19 35 | 21 5 44 |
| | APRIL { | 22 17 9 | 22 18 33 | | APRIL | 19 8 19 | 19 20 8 |
| | MAY . | 22 5 53 | 22 1 32 | | MAY . | 18 21 3 | 19 7 45 |
| | JUNE . | 20 18 37 | 20 9 8 | | JUNE . | 17 9 47 | 17 17 15 |
| | JULY . | 20 7 21 | 19 18 31 | | JULY . | { 16 22 31 | 17 1 29 |
| | AUG. . | 18 20 5 | 18 6 33 | | ○ | { 31 16 53 | 31 8 23 |
| | SEPT. . | 17 8 49 | 16 21 33 | | AUG. . | 15 11 15 | 15 9 27 |
| | ○ | { 2 3 11 | 2 4 15 | | SEPT. . | 13 23 59 | 13 18 4 |
| | OCT. . | { 16 21 33 | 16 15 23 | | OCT. . | 13 12 43 | 13 4 2 |
| | NOV. . | 15 10 17 | 15 10 41 | | NOV. . | 12 1 27 | 11 15 42 |
| | DEC. . | 14 23 1 | 15 5 56 | | DEC. . | 11 14 11 | 11 5 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 290. A. March. <i>d h. m.</i> 25 21 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 287. D. March. <i>d. h. m.</i> 25 14 55 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 10 2 56 | 9 20 31 | | JAN. . | 6 18 6 | 6 22 17 |
| | ○ | { 24 21 18 | 25 8 12 | | FEB. . | 5 6 50 | 5 8 15 |
| | FEB. . | 8 15 40 | 8 13 2 | | MAR. . | 6 19 34 | 6 17 35 |
| | MAR. . | 10 4 24 | 10 6 4 | | APRIL | 5 8 18 | 5 2 54 |
| | APRIL | 8 17 8 | 8 22 39 | | MAY . | { 4 21 2 | 4 12 59 |
| | MAY . | 8 5 52 | 8 13 54 | | ○ | { 19 15 24 | 20 1 26 |
| | JUNE . | 6 18 36 | 7 3 16 | | JUNE . | 3 9 46 | 3 0 39 |
| | JULY . | { 6 7 20 | 6 14 46 | | JULY . | 2 22 30 | 2 14 18 |
| | ○ | { 21 1 42 | 20 12 47 | | AUG. . | { 1 11 14 | 1 5 52 |
| | AUG. . | 4 20 4 | 5 0 53 | | SEPT. . | { 30 23 58 | 30 22 47 |
| | SEPT. . | 3 8 48 | 3 10 21 | | OCT. . | 29 12 42 | 29 16 0 |
| | OCT. . | 2 21 32 | 2 19 57 | | NOV. . | 29 1 26 | 29 8 35 |
| | NOV. . | { 1 10 16 | 1 6 12 | | ○ | { 12 19 48 | 12 8 58 |
| | DEC. . | { 30 23 0 | 30 17 18 | | NOV. . | { 27 14 10 | 27 23 44 |
| | | 30 11 44 | 30 5 18 | | DEC. . | 27 2 54 | 27 13 2 |
| 289. G.F. 25 8 18 | JAN. . | 29 0 28 | 28 18 18 | 286. C. 25 20 44 | JAN. . | 25 15 38 | 26 0 21 |
| | FEB. . | 27 13 12 | 27 8 18 | | FEB. . | 24 4 22 | 24 9 53 |
| | MAR. . | 28 1 56 | 27 23 18 | | MAR. . | 25 17 6 | 25 18 11 |
| | APRIL | 26 14 40 | 26 14 44 | | APRIL | 24 5 50 | 24 1 59 |
| | MAY . | 26 3 24 | 26 6 13 | | ○ | { 9 0 12 | 9 10 15 |
| | JUNE . | 24 16 8 | 24 21 2 | | MAY . | { 23 18 34 | 23 10 13 |
| | JULY . | 24 4 52 | 24 10 45 | | JUNE . | 22 7 18 | 21 19 57 |
| | AUG. . | 22 17 36 | 22 23 15 | | JULY . | 21 20 2 | 21 8 2 |
| | SEPT. . | 21 6 20 | 21 10 50 | | AUG. . | 20 8 46 | 19 22 52 |
| | OCT. . | 20 19 4 | 20 21 56 | | SEPT. . | 18 21 30 | 18 16 4 |
| | NOV. . | 19 7 48 | 19 8 51 | | OCT. . | 18 10 14 | 18 10 38 |
| | DEC. . | 18 20 32 | 18 19 42 | | ○ | { 2 4 36 | 1 21 55 |
| 288. E. 25 9 7 | JAN. . | 17 9 16 | 17 6 30 | 285. B.A. 25 2 38 | JAN. . | 15 0 27 | 15 13 11 |
| | FEB. . | 15 22 0 | 15 17 26 | | FEB. . | 13 13 11 | 14 1 18 |
| | MAR. . | 17 10 45 | 17 4 55 | | MAR. . | 14 1 55 | 14 10 58 |
| | APRIL | 15 23 29 | 15 17 22 | | APRIL | 12 14 39 | 12 18 48 |
| | MAY . | { 15 12 13 | 15 7 6 | | MAY . | 12 3 23 | 12 1 45 |
| | ○ | { 30 6 35 | 30 10 17 | | JUNE . | 10 16 7 | 10 8 51 |
| | JUNE . | 14 0 57 | 13 22 0 | | JULY . | 10 4 51 | 9 17 12 |
| | JULY . | 13 18 41 | 13 18 37 | | AUG. . | 8 17 35 | 8 8 51 |
| | AUG. . | 12 2 25 | 12 5 16 | | SEPT. . | 7 6 19 | 6 17 29 |
| | SEPT. . | 10 15 9 | 10 20 19 | | OCT. . | 6 19 3 | 6 10 4 |
| | OCT. . | 10 3 53 | 10 10 24 | | NOV. . | 5 7 47 | 5 4 52 |
| | NOV. . | { 8 16 37 | 8 23 25 | | DEC. . | 4 20 31 | 5 0 25 |
| | ○ | { 23 10 59 | 23 2 47 | | | | |
| | DEC. . | 8 5 21 | 8 11 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 284. G. March. d. h. m. 25 8 22 | | d. h. m. | d. h. m. | B.C. 281. D.C. March. d. h. m. 25 1 48 | | d. h. m. | d. h. m. |
| | JAN. . | 3 9 15 | 3 19 2 | | JAN. ○ | { 1 0 25 15 18 47 | ... 16 6 35 |
| | FEB. . | 1 21 59 | 2 11 18 | | | { 30 13 9 | 30 8 34 |
| | MAR. . | { 3 10 43 | 4 0 33 | | FEB. . | 29 1 53 | 29 1 10 |
| | ○ | { 18 5 5 | 17 23 35 | | MAR. . | 29 14 37 | 29 17 52 |
| | APRIL | 1 23 27 | 2 10 53 | | APRIL | 28 3 21 | 28 9 47 |
| | MAY . | { 1 12 11 | 1 18 58 | | MAY . | 27 16 5 | 28 0 9 |
| | | { 31 0 55 | 31 1 49 | | JUNE . | 26 4 49 | 26 12 42 |
| | JUNE . | 29 13 39 | 29 8 31 | | ○ | { 10 23 11 | 10 10 43 |
| | JULY . | 29 2 23 | 28 16 10 | | JULY . | { 25 17 33 | 25 23 38 |
| | AUG. . | 27 15 7 | 27 1 50 | | AUG. . | 24 6 17 | 24 9 35 |
| | ○ | { 11 9 29 | 11 15 12 | | SEPT. . | 22 19 1 | 22 19 18 |
| | SEPT. . | { 26 3 51 | 25 14 13 | | OCT. . | 22 7 45 | 22 5 22 |
| | OCT. . | 25 16 35 | 25 5 37 | | NOV. . | 20 20 29 | 20 16 5 |
| | NOV. . | 24 5 19 | 23 23 33 | | DEC. . | 20 9 13 | 20 3 34 |
| | DEC. . | 23 18 3 | 23 18 52 | | ○ | { 4 3 35 | 4 15 7 |
| 283. F. | JAN. . | 22 6 48 | 22 13 57 | 280. B. | JAN. . | { 18 21 58 | 18 15 52 |
| | FEB. . | 20 19 32 | 21 7 14 | | FEB. . | 17 10 42 | 17 5 4 |
| | ○ | { 7 13 54 | 7 9 56 | | MAR. . | 18 23 26 | 18 19 15 |
| 25 14 11 | MAR. . | { 22 8 16 | 22 21 44 | 25 7 37 | APRIL | 17 12 10 | 17 10 17 |
| | APRIL | 20 21 0 | 21 9 14 | | MAY . | 17 0 54 | 17 1 45 |
| | MAY . | 20 9 44 | 20 18 16 | | JUNE . | { 15 13 38 | 15 17 0 |
| | JUNE . | 18 22 23 | 19 1 45 | | ○ | { 30 8 0 | 30 0 16 |
| | JULY . | 18 11 12 | 18 8 50 | | JULY . | 15 2 22 | 15 7 29 |
| | AUG. . | { 16 23 56 | 16 16 31 | | AUG. . | 13 15 6 | 13 20 50 |
| | ○ | { 31 18 18 | 31 20 4 | | SEPT. . | 12 3 50 | 12 9 8 |
| | SEPT. . | 15 12 40 | 15 1 45 | | OCT. . | 11 16 31 | 11 20 42 |
| | OCT. . | 15 1 24 | 14 18 11 | | NOV. . | 10 5 18 | 10 7 51 |
| | NOV. . | 13 14 8 | 13 3 7 | | DEC. . | { 9 18 2 | 9 18 46 |
| | DEC. . | 13 2 52 | 12 19 25 | | ○ | { 24 12 24 | 24 16 34 |
| 282. E. | JAN. . | 11 15 37 | 11 13 20 | 279. A. | JAN. . | 8 6 46 | 8 5 29 |
| | FEB. . | { 10 4 21 | 10 7 42 | | FEB. . | 6 19 30 | 6 16 6 |
| | ○ | { 24 22 43 | 25 1 26 | | MAR. . | 8 8 14 | 8 2 58 |
| 25 20 0 | MAR. . | 11 17 5 | 12 1 11 | 25 13 26 | APRIL | 6 20 58 | 6 14 34 |
| | APRIL | 10 5 49 | 10 16 41 | | MAY . | 6 9 42 | 6 3 24 |
| | MAY . | 9 18 33 | 10 5 41 | | JUNE . | { 4 22 26 | 4 17 39 |
| | JUNE . | 8 7 17 | 8 16 17 | | ○ | { 19 16 43 | 19 17 22 |
| | JULY . | 7 20 1 | 8 1 11 | | JULY . | 4 11 10 | 4 9 1 |
| | AUG. . | 6 8 45 | 6 9 19 | | AUG. . | 2 23 54 | 3 0 54 |
| | SEPT. . | 4 21 29 | 4 17 45 | | SEPT. . | 1 12 38 | 1 16 35 |
| | OCT. . | 4 10 13 | 4 3 8 | | OCT. . | { 1 1 22 | 1 7 29 |
| | NOV. . | 2 22 57 | 2 14 1 | | | { 30 14 6 | 30 21 19 |
| | DEC. . | { 2 11 41 | 2 2 35 | | NOV. . | 29 2 50 | 29 9 56 |
| | | { ... | 31 16 51 | | DEC. . | 28 15 34 | 28 21 22 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 278. G. March. d. h. m. 25 19 15 | | d. h. m. | d. h. m. | B.C. 275. C. March. d. h. m. 25 12 41 | | d. h. m. | d. h. m. |
| | JAN. . | 27 4 19 | 27 7 40 | | JAN. . | 23 19 29 | 24 7 30 |
| | FEB. . | 25 17 3 | 25 17 4 | | FEB. . | 22 8 13 | 22 22 14 |
| | MAR. . | 27 5 47 | 27 2 3 | | MAR. . | 23 20 57 | 24 9 53 |
| | APRIL | 25 18 31 | 25 11 25 | | ○ | { 7 15 19 | 7 9 53 |
| | MAY . | 25 7 15 | 24 22 1 | | APRIL | { 22 9 41 | 22 18 55 |
| | JUNE . | 23 19 59 | 23 10 32 | | MAY . | 21 22 25 | 22 2 13 |
| | JULY . | 23 8 43 | 23 1 14 | | JUNE . | 20 11 9 | 20 8 52 |
| | AUG. . | 21 21 27 | 21 17 43 | | JULY . | 19 23 53 | 19 15 58 |
| | SEPT. . | 20 10 11 | 20 11 9 | | AUG. . | 18 12 37 | 18 0 37 |
| | OCT. . | 19 22 55 | 20 4 25 | | SEPT. . | 17 1 21 | 16 11 40 |
| | NOV. . | 18 11 39 | 18 20 35 | | ○ | { 1 19 43 | 2 1 47 |
| | DEC. . | 18 0 23 | 18 10 57 | | OCT. . | { 16 14 5 | 16 1 37 |
| | | | | | NOV. . | 15 2 49 | 14 18 23 |
| | | | | | DEC. . | 14 15 33 | 14 13 8 |
| 277. F.E. 25 1 4 | JAN. . | 16 13 8 | 16 23 14 | 274. B. 25 18 30 | JAN. . | 13 4 18 | 13 8 27 |
| | FEB. . | 15 1 52 | 15 9 31 | | FEB. . | { 11 17 2 | 12 2 40 |
| | MAR. . | 15 14 36 | 15 18 11 | | ○ | { 26 11 24 | 26 9 1 |
| | APRIL | { 14 3 20 | 14 1 55 | | MAR. . | 13 5 46 | 13 18 32 |
| | ○ | { 28 21 42 | 29 6 45 | | APRIL | 11 18 30 | 12 7 28 |
| | MAY . | 13 16 4 | 13 9 38 | | MAY . | 11 7 14 | 11 17 38 |
| | JUNE . | 12 4 48 | 11 18 23 | | JUNE . | 9 19 58 | 10 1 49 |
| | JULY . | 11 17 32 | 11 5 11 | | JULY . | 9 8 42 | 9 9 3 |
| | AUG. . | 10 6 16 | 9 18 40 | | AUG. . | 7 21 26 | 7 16 28 |
| | SEPT. . | 8 19 0 | 8 10 53 | | SEPT. . | 6 10 10 | 6 0 59 |
| | OCT. . | { 8 7 44 | 8 5 4 | | OCT. . | 5 22 54 | 5 11 23 |
| | ○ | { 23 2 6 | 22 20 57 | | NOV. . | 4 11 38 | 4 0 5 |
| | NOV. . | 6 20 28 | 6 23 59 | | DEC. . | 4 0 22 | 3 15 12 |
| | DEC. . | 6 9 12 | 6 18 8 | | | | |
| 276. D. 25 6 53 | JAN. . | 4 21 57 | 5 10 17 | 273. A.G. 25 0 19 | JAN. . | 2 13 6 | 2 8 15 |
| | FEB. . | 3 10 41 | 3 23 48 | | FEB. . | { 1 1 50 | 1 2 20 |
| | MAR. . | 4 23 25 | 5 10 26 | | ○ | { 15 20 12 | 16 1 15 |
| | APRIL | { 3 12 9 | 3 18 57 | | MAR. . | { 1 14 34 | 1 20 18 |
| | ○ | { 18 6 31 | 18 7 42 | | | { 31 3 18 | 31 12 41 |
| | MAY . | 3 0 53 | 3 2 6 | | APRIL | 29 16 2 | 30 2 56 |
| | JUNE . | 1 13 37 | { 1 8 56 | | MAY . | 29 4 46 | 29 14 44 |
| | JULY . | { 1 2 21 | { 30 16 29 | | JUNE . | 27 17 30 | 28 0 30 |
| | | { 30 15 5 | 30 1 54 | | JULY . | 27 6 14 | 27 9 6 |
| | AUG. . | 29 3 49 | 28 14 2 | | ○ | { 11 0 36 | 10 15 25 |
| | SEPT. . | 27 16 33 | 27 5 17 | | AUG. . | { 25 18 53 | 25 17 28 |
| | ○ | { 12 10 55 | 12 12 51 | | SEPT. . | 24 7 42 | 24 2 30 |
| | OCT. . | { 27 5 17 | 26 23 13 | | OCT. . | 23 20 26 | 23 12 44 |
| | NOV. . | 25 18 1 | 25 18 38 | | NOV. . | 22 9 10 | 22 0 27 |
| | DEC. . | 25 6 45 | 25 13 57 | | DEC. . | 21 21 54 | 21 13 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | * True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|---|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 272. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 269. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. March. | | | | C.B. March. | | | |
| <i>d. h. m.</i> | | | | <i>d. h. m.</i> | | | |
| 25 6 8 | JAN. . | 20 10 39 | 20 4 36 | 24 23 34 | JAN. . | 18 1 49 | 18 7 1 |
| | O | { 4 5 1 | 4 16 35 | | FEB. . | 16 14 33 | 16 16 39 |
| | FEB. . | { 18 23 23 | 18 20 33 | | MAR. . | 17 3 17 | 17 1 31 |
| | MAR. . | 20 12 7 | 20 13 3 | | APRIL | 15 16 1 | 15 10 21 |
| | APRIL | 19 0 51 | 19 5 18 | | MAY . | { 15 4 45 | 14 20 2 |
| | MAY . | 18 13 35 | 18 20 27 | | O | { 29 23 7 | 30 8 34 |
| | JUNE . | 17 2 19 | 17 10 2 | | JUNE . | 13 17 29 | 13 7 24 |
| | JULY . | { 16 15 3 | 16 21 56 | | JULY . | 13 6 13 | 12 21 0 |
| | O | { 31 9 25 | 30 20 1 | | AUG. . | 11 18 57 | 11 12 45 |
| | AUG. . | 15 3 47 | 15 8 32 | | SEPT. . | 10 7 41 | 10 6 2 |
| | SEPT. . | 13 16 31 | 13 18 33 | | OCT. . | 9 20 25 | 9 23 45 |
| | OCT. . | 13 5 15 | 13 4 36 | | NOV. . | { 8 9 9 | 8 16 49 |
| | NOV. . | 11 17 59 | 11 15 7 | | O | { 23 3 31 | 22 17 36 |
| | DEC. . | 11 6 43 | 11 2 11 | | DEC. . | 7 21 53 | 8 8 18 |
| 271. | JAN. . | 9 19 28 | 9 13 56 | 268. | JAN. . | 6 10 38 | 6 21 41 |
| E. | FEB. . | 8 8 12 | 8 2 24 | A. | FEB. . | 4 23 22 | 5 8 50 |
| 25 11 57 | MAR. . | 9 20 56 | 9 15 46 | 25 5 23 | MAR. . | 6 12 6 | 6 18 4 |
| | APRIL | 8 9 40 | 8 6 8 | | APRIL | 5 0 50 | 5 2 0 |
| | MAY . | 7 22 24 | 7 21 16 | | MAY . | { 4 13 34 | 4 9 26 |
| | JUNE . | 6 11 8 | 6 12 40 | | O | { 19 7 56 | 19 16 59 |
| | JULY . | 5 23 52 | 6 3 43 | | JUNE . | 3 2 18 | 2 17 26 |
| | AUG. . | 4 12 36 | 4 17 53 | | JULY . | 2 15 2 | { 2 3 1 |
| | SEPT. . | 3 1 20 | 3 6 58 | | AUG. . | { 1 3 46 | { 31 15 7 |
| | OCT. . | 2 14 4 | 2 19 10 | | SEPT. . | { 30 16 30 | 30 6 5 |
| | NOV. . | { 1 2 48 | 1 6 42 | | OCT. . | 29 5 14 | 28 23 33 |
| | DEC. . | { 30 15 32 | 30 17 50 | | O | { 12 12 20 | 12 6 49 |
| | | 30 4 16 | 30 4 36 | | NOV. . | { 27 6 42 | 27 13 19 |
| 270. | JAN. . | 28 17 0 | 23 15 3 | 267. | JAN. . | 25 8 10 | 25 21 27 |
| D. | FEB. . | 27 5 44 | 27 1 29 | G. | FEB. . | 23 20 54 | 24 9 24 |
| 25 17 46 | MAR. . | 28 18 28 | 23 12 22 | 25 11 12 | MAR. . | 25 9 33 | 25 18 49 |
| | APRIL | 27 7 12 | 27 0 16 | | APRIL | 23 22 22 | 24 2 25 |
| | MAY . | 26 19 56 | 26 13 39 | | MAY . | 23 11 6 | 23 9 12 |
| | O | { 10 14 18 | 10 17 40 | | JUNE . | 21 23 50 | 21 16 12 |
| | JUNE . | { 25 8 40 | 25 4 29 | | JULY . | 21 12 34 | 21 0 36 |
| | JULY . | 24 21 24 | 24 20 13 | | AUG. . | 20 1 13 | 19 11 20 |
| | AUG. . | 23 10 8 | 23 12 24 | | SEPT. . | 18 14 2 | 18 1 6 |
| | SEPT. . | 21 22 52 | 22 4 3 | | OCT. . | 18 2 46 | 17 17 52 |
| | OCT. . | 21 11 36 | 21 13 43 | | NOV. . | 16 15 30 | 16 12 47 |
| | NOV. . | 20 0 20 | 20 8 9 | | DEC. . | 16 4 14 | 16 8 25 |
| | O | { 4 18 42 | 4 10 58 | | | | |
| | DEC. . | { 19 13 4 | 19 20 14 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 266. F. March. d. h. m. 25 17 1 | | d. h. m. | d. h. m. | B.C. 263. B. March. d. h. m. 25 10 27 | | d. h. m. | d. h. m. |
| | JAN. . | 14 16 59 | 15 2 59 | | JAN. . | { 11 8 9 | 11 1 10 |
| | FEB. . | 13 5 43 | 13 19 9 | | ○ | { 26 2 31 | 26 15 1 |
| | MAR. . | { 14 18 27 | 15 8 15 | | FEB. . | 9 20 53 | 9 16 20 |
| | ○ | { 29 12 49 | 29 6 52 | | MAR. . | 11 9 37 | 11 8 21 |
| | APRIL | 13 7 11 | 13 18 26 | | APRIL | 9 22 21 | 10 0 37 |
| | MAY . | 12 19 55 | 13 2 26 | | MAY . | 9 11 5 | 9 16 19 |
| | JUNE . | 11 8 39 | 11 9 15 | | JUNE . | 7 23 49 | 8 6 48 |
| | JULY . | 10 21 23 | 10 16 4 | | JULY . | 7 12 33 | 7 19 41 |
| | AUG. . | 9 10 7 | 8 23 55 | | AUG. . | 6 1 17 | 6 7 6 |
| | SEPT. . | { 7 22 51 | 7 9 47 | | SEPT. . | 4 14 1 | 4 17 37 |
| | ○ | { 22 17 13 | 22 23 7 | | OCT. . | 4 2 45 | 4 3 49 |
| | OCT. . | 7 11 35 | 6 21 20 | | NOV. . | 2 15 29 | 2 14 14 |
| | NOV. . | 6 0 19 | 5 13 47 | | DEC. . | { 2 4 13 | 2 1 2 |
| | DEC. . | 5 13 3 | 5 7 38 | | | { 31 16 53 | 31 12 21 |
| 265. E.D. 21 22 50 | JAN. . | 4 1 48 | 4 2 46 | 262. A. 25 16 16 | ○ | { 15 11 20 | 15 23 14 |
| | FEB. . | 2 14 32 | 2 21 35 | | JAN. . | { 30 5 42 | 30 0 12 |
| | MAR. . | { 3 8 16 | 3 14 37 | | FEB. . | 23 18 26 | 23 12 49 |
| | ○ | { 17 21 38 | 17 17 47 | | MAR. . | 30 7 10 | 30 2 23 |
| | APRIL | 1 16 0 | 2 4 59 | | APRIL | 28 19 54 | 28 16 56 |
| | MAY . | { 1 4 44 | 1 16 27 | | MAY . | 28 8 33 | 28 8 12 |
| | JUNE . | { 30 17 28 | 31 1 32 | | JUNE . | 26 21 22 | 26 23 33 |
| | JUNE . | 29 6 12 | 29 9 13 | | ○ | { 11 15 44 | 11 7 47 |
| | JULY . | 23 18 56 | 23 16 33 | | JULY . | { 26 10 6 | 26 14 24 |
| | AUG. . | 27 7 40 | 27 0 35 | | AUG. . | 24 22 50 | 25 4 18 |
| | ○ | { 11 2 2 | 11 3 22 | | SEPT. . | 23 11 34 | 23 17 13 |
| | SEPT. . | { 25 20 24 | 25 10 7 | | OCT. . | 23 0 18 | 23 5 19 |
| | OCT. . | 25 9 8 | 24 21 43 | | NOV. . | 21 13 2 | 21 16 46 |
| | NOV. . | 23 21 52 | 23 11 36 | | DEC. . | 21 1 46 | 21 3 43 |
| | DEC. . | 23 10 36 | 23 3 38 | | | | |
| 264. C. 25 4 39 | JAN. . | 21 23 20 | 21 21 7 | 261. G.F. 24 22 5 | ○ | { 4 20 8 | 5 0 25 |
| | FEB. . | 20 12 4 | 20 15 2 | | JAN. . | { 19 14 30 | 19 14 12 |
| | ○ | { 7 6 26 | 7 9 35 | | FEB. . | 18 3 14 | 18 0 22 |
| | MAR. . | { 22 0 43 | 22 8 10 | | MAR. . | 18 15 58 | 18 10 40 |
| | APRIL | 20 13 32 | 20 28 31 | | APRIL | 17 4 42 | 16 21 43 |
| | MAY . | 20 2 16 | 20 12 34 | | MAY . | 16 17 26 | 16 10 9 |
| | JUNE . | 18 15 0 | 18 23 22 | | JUNE . | { 15 6 10 | 15 0 10 |
| | JULY . | 18 3 44 | 18 8 37 | | ○ | { 30 0 32 | 30 0 52 |
| | AUG. . | 16 16 23 | 16 17 13 | | JULY . | 14 18 54 | 14 15 37 |
| | SEPT. . | 15 5 12 | 15 2 3 | | AUG. . | 13 7 38 | 13 7 51 |
| | OCT. . | 14 17 56 | 14 11 47 | | SEPT. . | 11 20 22 | 12 0 5 |
| | NOV. . | 13 6 40 | 12 22 49 | | OCT. . | 11 9 6 | 11 15 35 |
| | DEC. . | 12 19 24 | 12 11 16 | | NOV. . | 9 21 50 | 10 5 53 |
| | | | | | DEC. . | 9 10 34 | 9 18 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 260. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 257. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 7 23 19 | 8 6 11 | March. | JAN. . | 5 14 29 | 5 21 54 |
| <i>d. h. m.</i> | FEB. . | 6 12 3 | 6 16 18 | <i>d. h. m.</i> | FEB. . | 4 3 13 | 4 15 20 |
| 25 3 54 | MAR. . | 8 0 47 | 8 1 11 | 24 21 20 | MAR. . | 4 15 57 | 5 5 55 |
| | APRIL | 6 13 31 | 6 9 43 | | APRIL | { 3 4 41 | 3 17 26 |
| | MAY . | 6 2 15 | 5 18 38 | | ○ | { 17 23 8 | 17 16 54 |
| | JUNE . | 4 14 59 | 4 4 55 | | MAY . | 2 17 25 | 3 2 21 |
| | JULY . | 4 3 43 | 3 17 18 | | JUNE . | { 1 6 9 | 1 9 34 |
| | AUG. . | 2 16 27 | 2 8 4 | | | { 30 18 53 | 30 16 21 |
| | SEPT. . | { 1 5 11 | 1 0 50 | | JULY . | 30 7 37 | 29 23 41 |
| | | { 30 17 55 | 30 18 43 | | AUG. . | 28 20 21 | 28 8 32 |
| | OCT. . | 30 6 39 | 30 12 29 | | SEPT. . | 27 9 5 | 26 19 46 |
| | NOV. . | 28 19 23 | 29 5 2 | | ○ | { 12 3 27 | 12 10 3 |
| | DEC. . | 28 8 7 | 28 19 33 | | OCT. . | { 26 21 49 | 26 9 50 |
| | | | | | NOV. . | 25 10 33 | 25 2 34 |
| 259. | JAN. . | 26 20 52 | 27 7 47 | | DEC. . | 24 23 17 | 24 21 7 |
| D. | FEB. . | 25 9 36 | 25 17 47 | 256. | JAN. . | 23 12 1 | 23 16 7 |
| 25 9 43 | MAR. . | 26 22 20 | 27 2 6 | G. | FEB. . | 22 0 45 | 22 10 4 |
| | APRIL | 25 11 4 | 25 9 30 | 25 8 9 | MAR. . | 23 13 29 | 24 1 45 |
| | ○ | { 10 5 26 | 10 13 25 | | APRIL | 22 2 13 | 22 14 33 |
| | MAY . | { 24 23 43 | 24 16 56 | | MAY . | 21 14 57 | 22 0 49 |
| | JUNE . | 23 12 32 | 23 1 32 | | JUNE . | 20 3 41 | 20 9 9 |
| | JULY . | 23 1 16 | 22 12 17 | | JULY . | 19 16 23 | 19 16 40 |
| | AUG. . | 21 14 0 | 21 1 52 | | AUG. . | 18 5 9 | 18 0 24 |
| | SEPT. . | 20 2 44 | 19 13 17 | | SEPT. . | 16 17 53 | 16 9 13 |
| | OCT. . | 19 15 28 | 19 12 47 | | OCT. . | 16 6 37 | 15 19 53 |
| | ○ | { 3 9 50 | 3 5 43 | | NOV. . | 14 19 21 | 14 8 39 |
| | NOV. . | { 18 4 12 | 18 8 0 | | DEC. . | 14 8 5 | 13 23 33 |
| | DEC. . | 17 16 56 | 18 2 22 | | | | |
| 258. | JAN. . | 16 5 40 | 16 13 31 | 255. | JAN. . | 12 20 50 | 12 16 14 |
| C. | FEB. . | 14 18 24 | 15 7 50 | F. | FEB. . | { 11 9 34 | 11 9 51 |
| 25 15 32 | MAR. . | 16 7 8 | 16 13 20 | | ○ | { 26 3 56 | 26 9 24 |
| | APRIL | { 14 19 52 | 15 2 33 | 25 8 53 | MAR. . | 12 22 13 | 13 3 13 |
| | ○ | { 29 14 14 | 29 14 13 | | APRIL | 11 11 2 | 11 19 31 |
| | MAY . | 14 8 36 | 14 9 35 | | MAY . | 10 23 43 | 11 9 44 |
| | JUNE . | 12 21 20 | 12 16 19 | | JUNE . | 9 12 30 | 9 21 42 |
| | JULY . | 12 10 4 | 11 23 53 | | JULY . | 9 1 14 | 9 7 43 |
| | AUG. . | 10 22 43 | 10 9 24 | | AUG. . | { 7 13 53 | 7 13 49 |
| | SEPT. . | 9 11 32 | 8 21 41 | | ○ | { 22 3 20 | 21 22 29 |
| | OCT. . | { 9 0 16 | 8 13 5 | | SEPT. . | 6 2 42 | 6 1 29 |
| | ○ | { 23 18 33 | 23 21 32 | | OCT. . | 5 15 23 | 5 11 4 |
| | NOV. . | 7 13 0 | 7 7 7 | | NOV. . | 4 4 10 | 3 21 32 |
| | DEC. . | 7 1 44 | 7 2 37 | | DEC. . | 3 13 54 | 3 9 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 254. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 251. A. March. <i>d. h. m.</i> 25 8 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 25 14 47 | JAN. . | { 2 5 39 31 18 23 | 1 22 19 31 12 36 | | JAN. . | 28 9 33 | 28 15 40 |
| | FEB. . | { ... 15 12 45 | ... 16 0 51 | | FEB. . | 26 22 17 | 27 0 56 |
| | MAR. . | { 2 7 7 31 19 51 | 2 3 57 31 19 56 | | MAR. . | 28 11 1 | 28 9 21 |
| | APRIL | 30 8 35 | 30 11 53 | | APRIL | 26 23 45 | 26 17 44 |
| | MAY . | 29 21 19 | 30 3 2 | | MAY . | 26 12 29 | 26 3 5 |
| | JUNE . | 28 10 3 | 23 16 50 | | ○ | { 10 6 51 25 1 13 | 10 15 41 24 14 14 |
| | JULY . | 27 22 47 | 28 5 11 | | JUNE . | 24 13 57 | 24 3 49 |
| | ○ | { 11 17 9 26 11 31 | 11 3 23 26 16 20 | | JULY . | 23 2 41 | 22 19 46 |
| | AUG. . | 25 0 15 | 25 2 53 | | AUG. . | 21 15 25 | 21 13 25 |
| | SEPT. . | 24 12 59 | 24 13 22 | | SEPT. . | 21 4 9 | 21 7 33 |
| | OCT. . | 23 1 43 | 23 0 4 | | OCT. . | 19 16 53 | 20 1 7 |
| | NOV. . | 22 14 27 | 22 11 4 | | ○ | { 4 11 15 19 5 37 | 4 2 16 19 16 50 |
| | DEC. . | 21 3 11 | 20 22 27 | 250. G. 25 14 2 | JAN. . | 17 18 21 | 18 6 12 |
| 253. D.C. | FEB. . | 19 15 55 | 19 10 22 | | FEB. . | 16 7 5 | 16 17 10 |
| 24 20 36 | MAR. . | 20 4 39 | 19 23 8 | | MAR. . | 17 19 49 | 18 2 5 |
| | APRIL | 18 17 23 | 18 12 57 | | APRIL | 16 8 33 | 16 9 40 |
| | MAY . | 18 6 7 | 18 3 45 | | MAY . | { 15 21 17 30 15 39 | 15 16 50 30 23 38 |
| | JUNE . | 16 18 51 | 16 19 7 | | ○ | 14 10 1 | 14 0 33 |
| | JULY . | { 16 7 35 31 1 57 | 16 10 25 30 15 37 | | JUNE . | 13 22 45 | 13 10 10 |
| | ○ | 14 20 19 | 15 1 5 | | JULY . | 12 11 29 | 11 22 19 |
| | AUG. . | 13 9 3 | 13 14 48 | | AUG. . | 11 0 13 | 10 13 26 |
| | SEPT. . | 12 21 47 | 13 3 33 | | SEPT. . | 10 12 57 | 10 7 10 |
| | OCT. . | 11 10 31 | 11 15 30 | | OCT. . | { 9 1 41 23 20 3 | 9 2 21 23 15 43 |
| | NOV. . | 10 23 15 | 11 2 47 | | ○ | 8 14 25 | 8 21 25 |
| | DEC. . | 9 12 0 | 9 13 26 | | DEC. . | 7 8 10 | 7 14 51 |
| 252. B. | FEB. . | 8 0 44 | 7 23 32 | 249. F.E. | JAN. . | 5 15 54 | 6 5 36 |
| 25 2 25 | MAR. . | 9 13 28 | 9 9 25 | 21 19 51 | MAR. . | 6 4 38 | 6 17 23 |
| | APRIL | 8 2 12 | 7 19 45 | | APRIL | 4 17 22 | 5 2 34 |
| | MAY . | 7 14 56 | 7 7 10 | | MAY . | 4 6 6 | 4 9 58 |
| | JUNE . | { 6 3 40 20 22 2 | 5 20 15 21 1 7 | | JUNE . | 2 18 50 | 2 16 38 |
| | ○ | 5 16 24 | 5 11 2 | | JULY . | { 2 7 34 31 20 18 | 1 23 39 31 8 8 |
| | JULY . | 4 5 8 | 4 3 5 | | AUG. . | 30 9 2 | 29 19 1 |
| | AUG. . | 2 17 52 | 2 19 39 | | SEPT. . | 28 21 46 | 28 8 55 |
| | SEPT. . | { 2 6 36 31 19 20 | 2 11 54 { 1 3 7 30 16 54 | | OCT. . | 23 10 30 | 23 1 48 |
| | OCT. . | 30 8 4 | 14 19 10 | | NOV. . | 26 23 14 | 26 20 47 |
| | ○ | { 15 2 26 29 20 48 | 14 19 10 30 5 4 | | DEC. . | 26 11 53 | 26 16 21 |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (☉ Full Rel.) | True New Moon. (☉ Full Rel.) | Mean Vernal Equinox. | Month. | Mean New Moon. (☉ Full Rel.) | True New Moon. (☉ Full Rel.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 248. D. March. d. h. m. 25 1 40 | | d. h. m. | d. h. m. | B.C. 248. A.D. March. d. h. m. 24 10 0 | | d. h. m. | d. h. m. |
| | JAN. . | 25 0 43 | 25 10 50 | | JAN. . | 22 15 12 | 22 9 25 |
| | FEB. . | 23 13 27 | 24 2 50 | | FEB. . | 19 10 15 | 19 23 18 |
| | MAR. . | 25 2 11 | 25 15 47 | | MAR. . | 21 4 42 | 21 23 16 |
| | ○ | 8 20 33 | 8 11 5 | | APR. . | 21 17 11 | 21 15 25 |
| | APRIL . | 23 14 55 | 24 1 51 | | MAY. . | 19 10 19 | 19 22 17 |
| | MAY. . | 23 8 30 | 23 9 49 | | JUNE . | 19 7 33 | 19 15 21 |
| | JUNE . | 21 16 23 | 21 16 44 | | JULY . | 17 20 17 | 17 2 43 |
| | JULY . | 21 5 7 | 21 23 41 | | AUG. . | 16 9 1 | 16 14 50 |
| | AUG. . | 19 17 51 | 19 7 49 | | SEPT. . | 14 21 15 | 15 1 44 |
| | SEPT. . | 18 6 35 | 17 17 54 | | OCT. . | 14 10 29 | 14 12 21 |
| | ○ | 8 0 57 | 8 7 10 | | NOV. . | 12 23 13 | 12 23 6 |
| | OCT. . | 17 19 19 | 17 6 30 | | DEC. . | 12 11 57 | 12 10 0 |
| | NOV. . | 16 8 8 | 15 24 2 | | | | |
| | DEC. . | 15 20 47 | 15 15 43 | | | | |
| 247. C. 25 7 29 | JAN. . | 14 9 31 | 14 10 32 | 244. F. 25 0 55 | JAN. . | 11 0 41 | 10 21 4 |
| | FEB. . | 12 22 15 | 13 5 2 | | FEB. . | 12 19 0 | 12 7 11 |
| | MAR. . | 14 10 50 | 14 21 50 | | MAR. . | 9 13 25 | 9 6 26 |
| | ○ | 29 5 21 | 29 1 29 | | APR. . | 11 2 0 | 10 20 25 |
| | APRIL . | 12 23 43 | 13 12 4 | | MAY. . | 9 14 53 | 9 9 25 |
| | MAY. . | 12 12 27 | 12 23 33 | | JUNE . | 9 8 57 | 9 23 33 |
| | JUNE . | 11 1 11 | 11 8 47 | | JULY . | 7 16 21 | 7 14 37 |
| | JULY . | 10 13 55 | 10 16 42 | | ○ | 7 5 5 | 7 6 7 |
| | AUG. . | 9 2 30 | 9 0 23 | | ○ | 21 23 27 | 21 15 23 |
| | SEPT. . | 7 15 23 | 7 8 47 | | AUG. . | 5 17 49 | 5 21 27 |
| | ○ | 23 9 45 | 23 10 51 | | SEPT. . | 4 6 33 | 4 11 52 |
| | OCT. . | 7 4 7 | 6 18 35 | | OCT. . | 3 19 17 | 3 1 24 |
| | NOV. . | 5 16 51 | 5 6 18 | | NOV. . | 2 9 1 | 2 13 59 |
| | DEC. . | 5 5 35 | 4 20 6 | | DEC. . | 1 30 45 | 2 1 42 |
| 246. D. 25 18 18 | JAN. . | 8 13 20 | 8 11 49 | | ○ | 13 8 32 | 13 6 12 |
| | FEB. . | 2 7 4 | 2 4 49 | 243. E. 25 6 44 | JAN. . | 12 22 11 | 12 23 49 |
| | MAR. . | 8 19 43 | 8 23 14 | | FEB. . | 20 10 56 | 20 6 32 |
| | ○ | 18 14 10 | 18 17 36 | | MAR. . | 20 23 42 | 20 18 16 |
| | APRIL . | 2 8 32 | 2 15 4 | | APRIL . | 20 12 20 | 20 4 49 |
| | MAY. . | 1 21 16 | 2 0 17 | | MAY. . | 20 1 10 | 27 16 51 |
| | ○ | 31 10 0 | 31 19 24 | | JUNE . | 20 13 51 | 20 6 43 |
| | JUNE . | 29 22 44 | 30 6 31 | | ○ | 11 8 16 | 11 6 20 |
| | JULY . | 29 11 23 | 29 16 10 | | JULY . | 10 2 30 | 25 22 17 |
| | AUG. . | 28 0 12 | 28 1 14 | | AUG. . | 24 15 27 | 24 14 54 |
| | ○ | 11 18 34 | 11 10 34 | | SEPT. . | 23 4 6 | 23 7 42 |
| | SEPT. . | 26 12 56 | 26 10 29 | | OCT. . | 22 16 50 | 22 23 47 |
| | OCT. . | 26 1 40 | 25 20 33 | | NOV. . | 21 5 34 | 21 14 31 |
| | NOV. . | 24 14 24 | 24 7 40 | | DEC. . | 20 13 14 | 21 3 34 |
| | DEC. . | 24 3 8 | 23 19 57 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 242. D. March. d. h. m. 25 12 33 | | d. h. m. | d. h. m. | B.C. 239. G. March. d. h. m. 25 5 59 | | d. h. m. | d. h. m. |
| | JAN. . | 19 7 2 | 19 14 53 | | JAN. . | 15 22 12 | 16 5 43 |
| | FEB. . | 17 19 46 | 18 0 37 | | FEB. . | 14 10 56 | 14 22 59 |
| | MAR. . | 19 8 30 | 19 9 9 | | MAR. . | 15 23 40 | 16 13 25 |
| | APRIL | 17 21 14 | 17 17 15 | | APRIL | { 14 12 24 | 15 0 50 |
| | MAY . | 17 9 58 | 17 1 49 | | ○ | { 29 6 46 | 28 23 47 |
| | JUNE . | 15 22 42 | 15 11 50 | | MAY . | 14 1 8 | 14 9 42 |
| | JULY . | 15 11 26 | 15 0 8 | | JUNE . | 12 13 52 | 12 17 2 |
| | AUG. . | 14 0 10 | 13 15 0 | | JULY . | 12 2 36 | 11 23 56 |
| | SEPT. . | 12 12 54 | 12 8 5 | | AUG. . | 10 15 20 | 10 7 29 |
| | OCT. . | 12 1 38 | 12 2 22 | | SEPT. . | 9 4 4 | 8 16 33 |
| | NOV. . | 10 14 22 | 10 20 36 | | OCT. . | { 8 16 48 | 8 4 2 |
| | DEC. . | 10 3 6 | 10 13 27 | | ○ | { 23 11 10 | 23 18 23 |
| | | | | | NOV. . | 7 5 32 | 6 18 8 |
| | | | | | DEC. . | 6 18 16 | 6 10 43 |
| 241. C.B. 24 18 22 | JAN. . | 8 15 51 | 9 4 4 | 238. F. 25 11 48 | JAN. . | 5 7 1 | 5 5 1 |
| | FEB. . | 7 4 35 | 7 16 9 | | FEB. . | 3 19 45 | 3 23 41 |
| | MAR. . | 7 17 19 | 8 1 53 | | MAR. . | 5 8 29 | 5 17 19 |
| | APRIL | 6 6 3 | 6 9 52 | | APRIL | 3 21 13 | 4 8 50 |
| | MAY . | { 5 18 47 | 5 16 59 | | MAY . | 3 9 57 | 3 21 40 |
| | ○ | { 20 13 9 | 20 20 0 | | JUNE . | 1 22 41 | 2 7 53 |
| | JUNE . | 4 7 31 | 4 0 14 | | JULY . | { 1 11 25 | 1 16 32 |
| | JULY . | 3 20 15 | 3 8 45 | | ○ | { 31 0 9 | 31 0 23 |
| | AUG. . | { 2 8 59 | 1 19 30 | | AUG. . | 29 12 53 | 29 8 30 |
| | | { 31 21 43 | 31 9 13 | | SEPT. . | 28 1 37 | 27 17 41 |
| | SEPT. . | 30 10 27 | 30 1 50 | | OCT. . | 27 14 21 | 27 4 31 |
| | OCT. . | 29 23 11 | 29 20 35 | | NOV. . | 26 3 5 | 25 17 16 |
| | ○ | { 13 17 33 | 13 14 43 | | DEC. . | 25 15 49 | 25 7 56 |
| | NOV. . | { 23 11 55 | 23 16 1 | | | | |
| | DEC. . | 23 0 39 | 23 10 23 | | | | |
| 240. A. 25 0 11 | JAN. . | 26 13 24 | 27 2 39 | 237. E.D. 24 17 37 | JAN. . | 24 4 34 | 24 0 8 |
| | FEB. . | 25 2 8 | 25 15 50 | | FEB. . | 22 17 18 | 22 17 13 |
| | MAR. . | 26 14 52 | 27 2 8 | | ○ | { 8 11 40 | 8 17 32 |
| | APRIL | 25 3 36 | 25 10 13 | | MAR. . | { 23 6 2 | 23 10 15 |
| | ○ | { 9 21 53 | 9 20 48 | | APRIL | 21 18 46 | 22 2 15 |
| | MAY . | { 24 16 20 | 24 17 3 | | MAY . | 21 7 30 | 21 16 23 |
| | JUNE . | 23 5 4 | 22 23 46 | | JUNE . | 19 20 14 | 20 4 39 |
| | JULY . | 22 17 48 | 22 7 26 | | JULY . | 19 8 53 | 19 15 9 |
| | AUG. . | 21 6 32 | 20 17 4 | | AUG. . | 17 21 42 | 18 0 39 |
| | SEPT. . | 19 19 16 | 19 5 31 | | ○ | { 1 16 4 | 1 5 44 |
| | OCT. . | 19 8 0 | 18 21 1 | | SEPT. . | { 16 10 26 | 16 9 57 |
| | ○ | { 3 2 22 | 3 6 20 | | OCT. . | 15 23 10 | 15 19 45 |
| | NOV. . | { 17 20 44 | 17 15 7 | | NOV. . | 14 11 54 | 14 6 25 |
| | DEC. . | 17 9 23 | 17 10 34 | | DEC. . | 14 0 33 | 13 18 4 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 236. c. March. d. h. m. 24 23 26 | JAN. . | d. h. m. 12 13 22 | d. h. m. 12 6 45 | B.C. 233. G.F. March. d. h. m. 24 16 52 | JAN. . | d. h. m. 10 4 32 | d. h. m. 10 13 48 |
| | FEB. . | { 11 2 6 | 10 20 29 | | FEB. . | 8 17 16 | 9 0 10 |
| | ○ | { 25 20 28 | 26 8 56 | | MAR. . | 9 6 0 | 9 9 2 |
| | MAR. . | 12 14 50 | 12 11 14 | | APRIL | 7 18 44 | 7 17 3 |
| | APRIL | 11 3 34 | 11 2 43 | | MAY . | 7 7 28 | 7 1 5 |
| | MAY . | 10 16 18 | 10 18 22 | | JUNE . | { 5 20 12 | 5 10 6 |
| | JUNE . | 9 5 2 | 9 9 32 | | ○ | { 20 14 34 | 20 22 47 |
| | JULY . | 8 17 46 | 8 23 39 | | JULY . | 5 8 56 | 4 21 8 |
| | AUG. . | { 7 6 30 | 7 12 30 | | AUG. . | 3 21 40 | 3 10 45 |
| | ○ | { 22 2 52 | 21 12 53 | | SEPT. . | 2 10 24 | 2 2 55 |
| | SEPT. . | 5 19 14 | 6 0 14 | | ○ | { 1 23 8 | 1 20 56 |
| | OCT. . | 5 7 58 | 5 11 20 | | OCT. . | { 31 11 52 | 31 15 34 |
| | NOV. . | 3 20 42 | 3 22 12 | | NOV. . | 30 0 36 | 30 9 24 |
| | DEC. . | 3 9 26 | 3 9 2 | | ○ | { 14 18 58 | 14 10 57 |
| | | | | | DEC. . | { 29 13 20 | 30 1 17 |
| 235. B. | JAN. . | { 1 22 11 | 1 19 55 | 232. E. | JAN. . | 23 2 5 | 28 14 37 |
| | FEB. . | { 31 10 55 | 31 6 54 | | FEB. . | 26 14 49 | 27 1 31 |
| | ... | ... | ... | | MAR. . | 28 3 33 | 28 9 59 |
| 25 5 15 | MAR. . | { 1 23 39 | 1 18 15 | 24 22 41 | APRIL | 26 16 17 | 26 17 17 |
| | ... | { 31 12 23 | 31 6 24 | | MAY . | 26 5 1 | 26 0 13 |
| | APRIL | 30 1 7 | 29 19 43 | | ○ | { 9 23 23 | 10 6 17 |
| | MAY . | 29 13 51 | 29 10 13 | | JUNE . | { 24 17 45 | 24 7 55 |
| | JUNE . | 28 2 35 | 28 1 36 | | JULY . | 24 6 29 | 23 17 27 |
| | JULY . | 27 15 19 | 27 17 13 | | AUG. . | 22 19 13 | 22 5 41 |
| | ○ | { 11 9 41 | 10 23 22 | | SEPT. . | 21 7 57 | 20 20 59 |
| | AUG. . | { 26 4 3 | 26 8 25 | | OCT. . | 20 20 41 | 20 14 55 |
| | SEPT. . | 24 16 47 | 24 22 45 | | NOV. . | 19 9 25 | 19 10 17 |
| | OCT. . | 24 5 31 | 24 12 4 | | ○ | { 4 3 47 | 4 0 40 |
| | NOV. . | 22 13 15 | 23 0 22 | | DEC. . | { 18 22 9 | 19 5 30 |
| | DEC. . | 22 6 59 | 22 11 43 | | | | |
| 234. A. | JAN. . | 20 19 44 | 20 22 10 | 231. D. | JAN. . | 17 10 53 | 17 22 55 |
| | FEB. . | 19 8 28 | 19 7 51 | | FEB. . | 15 23 37 | 16 13 54 |
| 25 11 4 | MAR. . | 20 21 12 | 20 17 14 | 25 4 30 | MAR. . | 17 12 21 | 18 1 10 |
| | APRIL | 19 9 56 | 19 3 3 | | APRIL | 16 1 5 | 16 10 10 |
| | MAY . | 18 22 40 | 18 14 3 | | MAY . | 15 18 49 | 15 17 26 |
| | JUNE . | 17 11 24 | 17 2 53 | | JUNE . | 14 2 33 | 14 0 5 |
| | ○ | { 2 5 46 | 2 8 36 | | JULY . | 13 15 17 | 13 7 9 |
| | JULY . | { 17 0 8 | 16 17 40 | | AUG. . | 12 4 1 | 11 15 46 |
| | AUG. . | 15 12 52 | 15 10 0 | | SEPT. . | 10 16 45 | 10 2 50 |
| | SEPT. . | 14 1 36 | 14 3 4 | | OCT. . | 10 5 29 | 9 16 54 |
| | OCT. . | 13 14 20 | 13 19 52 | | NOV. . | 8 18 13 | 8 9 49 |
| | NOV. . | 12 3 4 | 12 11 33 | | DEC. . | 8 6 57 | 8 4 45 |
| | DEC. . | { 11 15 48 | 12 1 33 | | | | |
| | ○ | { 26 10 10 | 26 3 23 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 230. C. March. d. h. m. 25 10 19 | | d. h. m. | d. h. m. | B.C. 227. F. March. d. h. m. 25 3 45 | | d. h. m. | d. h. m. |
| | JAN. . | 6 19 42 | 7 0 12 | | JAN. . | 3 10 52 | 3 4 36 |
| | FEB. . | 5 8 26 | 5 18 30 | | FEB. . | 1 23 36 | 1 17 33 |
| | MAR. . | 6 21 10 | 7 10 20 | | MAR. . | 3 12 20 | 3 7 30 |
| | APRIL | { 5 9 54 | 5 23 10 | | APRIL | 2 1 4 | 1 22 22 |
| | ○ | { 20 4 16 | 19 21 12 | | MAY . | { 1 13 48 | 1 13 50 |
| | MAY . | 4 22 38 | 5 9 11 | | | { 31 2 32 | 31 5 17 |
| | JUNE . | 3 11 22 | 3 17 11 | | JUNE . | 29 15 16 | 29 20 5 |
| | JULY . | 3 0 6 | 3 0 14 | | JULY . | 29 4 0 | 29 9 47 |
| | AUG. . | { 1 12 50 | 1 7 27 | | AUG. . | 27 16 44 | 27 22 20 |
| | | { 31 1 34 | 30 15 49 | | SEPT. . | 26 5 28 | 26 9 59 |
| | SEPT. . | 29 14 18 | 29 2 9 | | OCT. . | 25 18 12 | 25 21 9 |
| | ○ | { 14 8 40 | 14 15 16 | | NOV. . | 24 6 56 | 24 8 6 |
| | OCT. . | { 29 3 2 | 28 14 58 | | DEC. . | 23 19 40 | 23 18 55 |
| | NOV. . | 27 15 46 | 27 6 20 | | | | |
| | DEC. . | 27 4 30 | 26 23 45 | 226. E. | JAN. . | 22 8 25 | 22 5 40 |
| 229. B.A. 24 16 8 | JAN. . | 25 17 15 | 25 18 13 | | ○ | { 6 2 47 | 6 15 1 |
| | FEB. . | 24 5 59 | 24 12 22 | 25 9 34 | FEB. . | { 20 21 9 | 20 16 33 |
| | MAR. . | 24 18 43 | 25 4 55 | | MAR. . | 22 9 53 | 22 3 56 |
| | ○ | { 8 13 5 | 8 9 8 | | APRIL | 20 22 37 | 20 16 22 |
| | APRIL | { 23 7 27 | 23 19 3 | | MAY . | 20 11 21 | 20 6 7 |
| | MAY . | 22 20 11 | 23 6 36 | | JUNE . | 19 0 5 | 18 21 4 |
| | JUNE . | 21 8 55 | 21 16 3 | | JULY . | 18 12 49 | 18 12 45 |
| | JULY . | 20 21 39 | 21 0 17 | | ○ | { 2 7 11 | 1 23 5 |
| | AUG. . | 19 10 23 | 19 8 20 | | AUG. . | { 17 1 33 | 17 4 28 |
| | SEPT. . | 17 23 7 | 17 17 6 | | SEPT. . | 15 14 17 | 15 19 31 |
| | ○ | { 2 17 29 | 2 18 26 | | OCT. . | 15 3 1 | 15 9 42 |
| | OCT. . | { 17 11 51 | 17 3 13 | | NOV. . | 13 15 45 | 13 22 43 |
| | NOV. . | 16 0 35 | 15 15 1 | | DEC. . | 13 4 29 | 13 10 38 |
| | DEC. . | 15 13 19 | 15 4 39 | 225. D.C. | JAN. . | { 11 17 13 | 11 21 27 |
| 228. G. 24 21 57 | JAN. . | 14 2 3 | 13 19 55 | | ○ | { 26 11 35 | 26 15 52 |
| | FEB. . | 12 14 47 | 12 12 23 | 24 15 23 | FEB. . | 10 5 57 | 10 7 17 |
| | MAR. . | { 14 3 31 | 14 5 19 | | MAR. . | 10 18 41 | 10 16 31 |
| | ○ | { 28 21 53 | 29 1 29 | | APRIL | 9 7 25 | 9 1 46 |
| | APRIL | 12 16 15 | 12 21 47 | | MAY . | 8 20 9 | 8 11 51 |
| | MAY . | 12 4 59 | 12 12 54 | | JUNE . | 7 8 53 | 6 23 34 |
| | JUNE . | 10 17 43 | 11 2 11 | | JULY . | { 6 21 37 | 6 13 20 |
| | JULY . | 10 6 27 | 10 13 39 | | ○ | { 21 15 59 | 21 16 3 |
| | AUG. . | 8 19 11 | 8 23 47 | | AUG. . | 5 10 21 | 5 5 6 |
| | SEPT. . | { 7 7 55 | 7 9 20 | | SEPT. . | 3 23 5 | 3 22 5 |
| | ○ | { 22 2 17 | 21 17 58 | | OCT. . | 3 11 49 | 3 15 24 |
| | OCT. . | 6 20 39 | 6 19 4 | | NOV. . | 2 0 33 | 2 8 0 |
| | NOV. . | 5 9 23 | 5 5 24 | | DEC. . | { 1 18 17 | 1 23 7 |
| | DEC. . | 4 22 7 | 4 16 33 | | | { 31 2 1 | 31 12 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 224. B. March. d. h. m. 24 21 12 | | d. h. m. | d. h. m. | B.C. 221. F.E. March. d. h. m. 24 14 38 | | d. h. m. | d. h. m. |
| | JAN. . | 29 14 45 | 29 23 26 | | JAN. . | 27 5 56 | 27 13 25 |
| | FEB. . | 28 3 30 | 28 8 52 | | FEB. . | 25 18 40 | 26 6 31 |
| | MAR. . | 29 16 14 | 29 17 2 | | MAR. . | 26 7 24 | 26 20 48 |
| | APRIL | 28 4 58 | 28 1 12 | | APRIL | 24 20 8 | 25 8 7 |
| | MAY . | 27 17 42 | 27 8 59 | | ○ | { 9 14 30 | 9 6 39 |
| | JUNE . | 26 6 26 | 25 18 50 | | MAY . | { 24 8 52 | 24 17 1 |
| | JULY . | 25 19 10 | 25 7 6 | | JUNE . | 22 21 36 | 23 0 29 |
| | AUG. . | 24 7 54 | 23 22 7 | | JULY . | 22 10 20 | 22 7 35 |
| | SEPT. . | 22 20 38 | 22 15 29 | | AUG. . | 20 23 4 | 20 15 26 |
| | OCT. . | 22 9 22 | 22 10 10 | | SEPT. . | 19 11 48 | 19 0 51 |
| | NOV. . | 20 22 6 | 21 4 44 | | OCT. . | 19 0 32 | 18 12 27 |
| | DEC. . | 20 10 50 | 20 21 48 | | ○ | { 2 18 54 | 3 2 49 |
| | | | | | NOV. . | { 17 13 16 | 17 2 33 |
| 223. A. 25 3 1 | JAN. . | 18 23 34 | 19 12 28 | 220. D. 24 20 47 | JAN. . | 15 14 45 | 15 12 51 |
| | FEB. . | 17 12 19 | 18 0 23 | | FEB. . | 14 8 29 | 14 7 7 |
| | MAR. . | 19 1 3 | 19 9 52 | | MAR. . | 15 16 13 | 16 0 27 |
| | APRIL | 17 13 47 | 17 17 35 | | APRIL | 14 4 57 | 14 15 47 |
| | MAY . | { 17 2 31 | 17 0 28 | | MAY . | 13 17 41 | 14 4 35 |
| | ○ | { 31 20 53 | { 1 2 32 | | JUNE . | 12 6 25 | 12 15 6 |
| | JUNE . | 15 15 15 | { 15 7 35 | | JULY . | 11 19 9 | 11 23 58 |
| | JULY . | 15 3 59 | 14 16 4 | | AUG. . | 10 7 53 | 10 8 12 |
| | AUG. . | 13 16 43 | 13 2 54 | | SEPT. . | 8 20 37 | 8 16 48 |
| | SEPT. . | 12 5 27 | 11 16 45 | | OCT. . | 8 9 21 | 8 2 16 |
| | OCT. . | 11 18 11 | 11 9 33 | | NOV. . | 6 22 5 | 6 13 16 |
| | NOV. . | { 10 6 55 | 10 4 28 | | DEC. . | 6 10 49 | 6 1 56 |
| | ○ | { 25 1 17 | 24 23 41 | | | | |
| | DEC. . | 9 19 39 | 10 0 1 | | | | |
| 222. G. 25 8 50 | JAN. . | 8 8 23 | 8 18 31 | 219. C. 25 2 16 | JAN. . | 4 23 38 | 4 16 15 |
| | FEB. . | 6 21 7 | 7 10 36 | | FEB. . | 3 12 17 | 3 7 55 |
| | MAR. . | 8 9 51 | 8 23 38 | | MAR. . | { 5 1 1 | 5 0 28 |
| | APRIL | 6 22 35 | 7 9 45 | | ○ | { 19 19 23 | 20 1 32 |
| | MAY . | { 6 11 19 | 6 17 42 | | APRIL | 3 18 45 | 3 17 4 |
| | ○ | { 21 5 41 | 21 3 17 | | MAY . | 3 2 29 | 3 8 51 |
| | JUNE . | 5 0 3 | 5 0 30 | | JUNE . | 1 15 18 | 1 23 8 |
| | JULY . | 4 12 47 | 4 7 15 | | ○ | { 1 3 57 | 1 11 37 |
| | AUG. . | 3 1 31 | 2 15 3 | | JULY . | { 30 16 41 | 30 22 34 |
| | SEPT. . | 1 14 15 | { 1 0 53 | | AUG. . | 29 5 25 | 29 8 34 |
| | ○ | { 1 2 59 | { 30 13 30 | | ○ | { 12 23 47 | 12 13 7 |
| | OCT. . | { 30 15 43 | 30 5 5 | | SEPT. . | { 27 18 9 | 27 18 23 |
| | ○ | { 14 10 5 | 14 15 9 | | OCT. . | 27 6 53 | 27 4 33 |
| | NOV. . | { 29 4 27 | 28 23 8 | | NOV. . | 25 19 37 | 25 15 20 |
| | DEC. . | 28 17 11 | 28 18 27 | | DEC. . | 25 8 21 | 25 2 51 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 218. B. March. <i>d. h. m.</i> 25 8 5 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 215. E. March. <i>d. h. m.</i> 25 1 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 21 6 | 23 15 8 | | ○ | { 5 17 54 | 5 11 33 |
| | FEB. . | 22 9 50 | 22 4 17 | | JAN. . | { 20 12 16 | 20 22 25 |
| | ○ | { 9 4 12 | 9 16 53 | | FEB. . | 19 1 0 | 19 8 32 |
| | MAR. . | { 23 22 34 | 23 18 24 | | MAR. . | 20 13 44 | 20 17 8 |
| | APRIL | 22 11 18 | 22 9 24 | | APRIL | 19 2 28 | 19 0 41 |
| | MAY . | 22 0 2 | 22 0 49 | | MAY . | 18 15 12 | 18 8 24 |
| | JUNE . | 20 12 46 | 20 16 3 | | JUNE . | 17 3 56 | 16 17 12 |
| | JULY . | 20 1 30 | 20 6 32 | | ○ | { 1 22 18 | 2 5 56 |
| | AUG. . | 18 14 14 | 18 19 55 | | JULY . | { 16 16 40 | 16 4 10 |
| | ○ | { 2 8 36 | 1 18 31 | | AUG. . | 15 5 24 | 14 17 50 |
| | SEPT. . | { 17 2 58 | 17 8 17 | | SEPT. . | 13 18 8 | 13 10 15 |
| | OCT. . | 16 15 42 | 16 19 54 | | OCT. . | 13 6 52 | 13 4 35 |
| | NOV. . | 15 4 26 | 15 7 7 | | NOV. . | 11 19 36 | 11 23 34 |
| | DEC. . | 14 17 10 | 14 18 2 | | DEC. . | { 11 8 20 | 11 17 39 |
| | | | | | ○ | { 26 2 42 | 25 19 36 |
| 217. A.G. 24 13 54 | JAN. . | 13 5 54 | 13 4 40 | 214. D. 25 7 20 | JAN. . | 9 21 4 | 10 9 38 |
| | FEB. . | 11 18 38 | 11 15 12 | | FEB. . | 8 9 48 | 8 22 52 |
| | MAR. . | 12 7 22 | 12 2 0 | | MAR. . | 9 22 32 | 10 9 23 |
| | APRIL | 10 20 6 | 10 13 33 | | APRIL | 8 11 16 | 8 17 44 |
| | MAY . | 10 8 50 | 10 2 24 | | MAY . | 8 0 0 | 8 0 48 |
| | JUNE . | 8 21 34 | 8 16 41 | | JUNE . | { 6 12 44 | 6 7 36 |
| | JULY . | 8 10 18 | 8 8 9 | | ○ | { 21 7 6 | 21 12 57 |
| | AUG. . | { 6 23 2 | 7 0 6 | | JULY . | 6 1 28 | 5 15 15 |
| | ○ | { 21 17 24 | 21 7 16 | | AUG. . | 4 14 12 | 4 0 50 |
| | SEPT. . | 5 11 46 | 5 15 50 | | SEPT. . | 3 2 56 | 2 13 12 |
| | OCT. . | 5 0 30 | 5 6 47 | | OCT. . | 2 15 40 | { 2 4 40 |
| | NOV. . | 3 13 14 | 3 20 33 | | ○ | { 1 4 24 | { 31 22 45 |
| | DEC. . | 3 1 58 | 3 9 14 | | NOV. . | { 30 17 8 | 30 13 15 |
| | | | | | ○ | { 15 11 30 | 15 9 37 |
| 216. F. 24 19 43 | JAN. . | { 1 14 43 | 1 20 35 | 213. C.B. 24 13 9 | JAN. . | 28 13 37 | 29 6 53 |
| | | { 31 3 27 | 31 6 45 | | FEB. . | 27 7 21 | 27 21 23 |
| | FEB. . | ... | ... | | MAR. . | 27 20 5 | 28 8 49 |
| | MAR. . | { 1 16 11 | 1 16 2 | | APRIL | 26 8 49 | 26 17 41 |
| | | { 31 4 55 | 31 0 56 | | MAY . | 25 21 33 | 26 0 55 |
| | APRIL | 29 17 39 | 29 10 16 | | JUNE . | 24 10 17 | 24 7 33 |
| | MAY . | 29 6 23 | 28 20 54 | | JULY . | 23 23 1 | 23 14 47 |
| | JUNE . | 27 19 7 | 27 9 33 | | AUG. . | 22 11 45 | 21 23 35 |
| | ○ | { 12 13 29 | 12 16 5 | | SEPT. . | 21 0 29 | 20 10 50 |
| | JULY . | { 27 7 51 | 27 0 24 | | OCT. . | 20 13 13 | 20 1 0 |
| | AUG. . | 25 20 35 | 25 17 2 | | NOV. . | 19 1 57 | 18 17 56 |
| | SEPT. . | 24 9 19 | 24 10 33 | | DEC. . | 18 14 41 | 18 12 44 |
| | OCT. . | 23 22 3 | 24 3 53 | | | | |
| | NOV. . | 22 10 47 | 22 20 1 | | | | |
| | DEC. . | 21 23 31 | 22 10 17 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| B.C. 212. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 209. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. | | | |
| March. | JAN. . | 17 3 26 | 17 7 59 | March. | JAN. . | 14 18 35 | 14 13 9 |
| <i>d. h. m.</i> | FEB. . | 15 16 10 | 16 2 1 | <i>d. h. m.</i> | FEB. . | 13 7 20 | 13 1 35 |
| 24 18 57 | MAR. . | 17 4 54 | 17 17 41 | 24 12 24 | MAR. . | 13 20 4 | 13 14 55 |
| | APRIL | 15 17 38 | 16 6 25 | | APRIL | 12 8 43 | 12 5 13 |
| | ○ | 30 12 0 | 30 4 16 | | MAY . | 11 21 32 | 11 20 20 |
| | MAY . | 15 6 22 | 15 16 26 | | JUNE . | 10 10 16 | 10 11 45 |
| | JUNE . | 13 19 6 | 14 0 32 | | JULY . | 9 23 0 | 10 2 48 |
| | JULY . | 13 7 50 | 13 7 48 | | AUG. . | 8 11 44 | 8 16 58 |
| | AUG. . | 11 20 34 | 11 15 20 | | SEPT. . | 7 0 23 | 7 6 7 |
| | SEPT. . | 10 9 18 | 10 0 0 | | OCT. . | 6 13 12 | 6 18 22 |
| | OCT. . | 9 22 2 | 9 10 34 | | NOV. . | 5 1 56 | 5 5 58 |
| | ○ | 24 16 24 | 24 23 29 | | DEC. . | 4 14 40 | 4 17 4 |
| | NOV. . | 8 10 46 | 7 23 28 | | | | |
| | DEC. . | 7 23 30 | 7 14 41 | | | | |
| 211. | | | | 203. | | | |
| G. | JAN. . | 6 12 14 | 6 7 46 | C. | JAN. . | 3 3 24 | 3 3 47 |
| 25 0 46 | FEB. . | 5 0 58 | 5 1 47 | | FEB. . | 1 16 8 | 1 14 11 |
| | MAR. . | 6 13 42 | 6 19 31 | 24 18 13 | ○ | 16 10 30 | 16 22 39 |
| | APRIL | 5 2 26 | 5 11 50 | | MAR. . | 3 4 52 | 3 0 32 |
| | ○ | 19 20 43 | 19 16 39 | | APRIL | 1 17 36 | 1 11 20 |
| | MAY . | 4 15 10 | 5 1 55 | | ○ | 1 6 20 | 30 23 16 |
| | JUNE . | 3 3 54 | 3 13 35 | | MAY . | 30 19 4 | 30 12 41 |
| | JULY . | 2 16 38 | 2 23 19 | | JUNE . | 29 7 48 | 29 3 31 |
| | AUG. . | 1 5 22 | 1 7 56 | | JULY . | 28 20 32 | 28 19 29 |
| | ○ | 30 18 6 | 30 16 25 | | ○ | 12 14 54 | 12 6 55 |
| | SEPT. . | 29 6 50 | 29 1 34 | | AUG. . | 27 9 16 | 27 11 39 |
| | ○ | 14 1 12 | 14 2 8 | | SEPT. . | 25 22 0 | 26 3 21 |
| | OCT. . | 28 19 34 | 28 11 57 | | OCT. . | 25 10 44 | 25 18 3 |
| | NOV. . | 27 8 13 | 26 23 47 | | NOV. . | 23 23 28 | 24 7 28 |
| | DEC. . | 26 21 2 | 26 13 9 | | DEC. . | 23 12 12 | 23 19 29 |
| 210. | | | | 207. | | | |
| F. | JAN. . | 25 9 47 | 25 3 57 | B. | JAN. . | 22 0 57 | 22 6 9 |
| 25 6 35 | FEB. . | 23 22 31 | 23 19 51 | | ○ | 5 19 19 | 5 23 24 |
| | MAR. . | 25 11 15 | 25 12 16 | 25 0 2 | FEB. . | 20 13 41 | 20 15 39 |
| | ○ | 9 5 37 | 9 9 17 | | MAR. . | 22 2 25 | 22 0 26 |
| | APRIL | 23 23 59 | 24 4 25 | | APRIL | 20 15 9 | 20 9 12 |
| | MAY . | 23 12 43 | 23 19 29 | | MAY . | 20 3 53 | 19 18 53 |
| | JUNE . | 22 1 27 | 22 9 0 | | JUNE . | 18 16 37 | 18 6 21 |
| | JULY . | 21 14 11 | 21 20 52 | | JULY . | 18 5 21 | 17 20 5 |
| | AUG. . | 20 2 55 | 20 7 31 | | ○ | 1 23 43 | 1 23 47 |
| | SEPT. . | 18 15 39 | 18 17 33 | | AUG. . | 16 18 5 | 16 12 0 |
| | ○ | 3 10 1 | 3 1 34 | | SEPT. . | 15 6 49 | 15 5 25 |
| | OCT. . | 18 4 23 | 18 3 46 | | OCT. . | 14 19 33 | 14 23 13 |
| | NOV. . | 16 17 7 | 16 14 20 | | NOV. . | 13 8 17 | 13 16 18 |
| | DEC. . | 16 5 51 | 16 1 27 | | DEC. . | 12 21 1 | 13 7 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 206. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 203. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 25 5 50 | JAN. . | 11 9 46 | 11 20 56 | D. March. <i>d. h. m.</i> 24 23 17 | JAN. . | 8 0 55 | 8 2 18 |
| | FEB. . | 9 22 30 | 10 7 55 | | FEB. . | 6 18 39 | 6 20 59 |
| | MAR. . | 11 11 14 | 11 16 59 | | MAR. . | 8 2 23 | 8 13 51 |
| | APRIL | 9 23 58 | 10 0 47 | | APRIL | 6 15 7 | 7 3 59 |
| | MAY . | 9 12 42 | 9 8 11 | | MAY . | { 6 3 51 | 6 15 17 |
| | JUNE . | 8 1 26 | 7 16 11 | | ○ | { 20 22 13 | 20 13 30 |
| | JULY . | 7 14 10 | 7 1 54 | | JUNE . | 4 16 35 | 5 0 16 |
| | AUG. . | 6 2 54 | 5 14 12 | | JULY . | 4 5 19 | 4 7 56 |
| | SEPT. . | 4 15 38 | 4 5 22 | | AUG. . | 2 18 3 | { 2 15 22 |
| | OCT. . | 4 4 22 | 3 23 1 | | SEPT. . | { 1 6 47 | { 31 23 31 |
| | NOV. . | 2 17 6 | 2 18 2 | | ○ | { 30 19 31 | 30 9 18 |
| | DEC. . | { 2 5 50 | 2 12 53 | | OCT. . | 30 8 15 | 29 20 59 |
| | | { 31 18 34 | ... | | ○ | { 14 2 37 | 14 11 16 |
| 205. G.F. | JAN. . | { ... | 1 6 6 | 202. C. | JAN. . | 26 22 28 | 26 20 36 |
| 24 11 39 | FEB. . | { 30 7 18 | 30 20 43 | 25 5 6 | FEB. . | 25 11 12 | 25 14 24 |
| | MAR. . | 28 20 2 | 29 8 27 | | MAR. . | 26 23 56 | 27 7 23 |
| | APRIL | 29 8 46 | 29 17 40 | | APRIL | 25 12 40 | 25 22 34 |
| | MAY . | 27 21 30 | 28 1 10 | | MAY . | 25 1 24 | 25 11 28 |
| | ○ | { 11 4 36 | 11 9 4 | | JUNE . | 23 14 8 | 23 22 13 |
| | JUNE . | { 25 22 58 | 25 14 57 | | JULY . | 23 2 52 | 23 7 28 |
| | JULY . | 25 11 42 | 24 23 29 | | AUG. . | 21 15 36 | 21 16 8 |
| | AUG. . | 24 0 26 | 23 10 26 | | SEPT. . | 20 4 20 | 20 1 4 |
| | SEPT. . | 22 13 10 | 22 0 25 | | OCT. . | 19 17 4 | 19 10 57 |
| | OCT. . | 22 1 54 | 21 17 22 | | NOV. . | 18 5 48 | 17 22 4 |
| | NOV. . | 20 14 38 | 20 12 26 | | DEC. . | 17 18 32 | 17 10 36 |
| | ○ | { 5 9 0 | 5 8 39 | | | | |
| | DEC. . | { 20 8 22 | 20 8 0 | | | | |
| 204. E. | JAN. . | 18 16 7 | 19 2 23 | 201. B.A. | JAN. . | 16 7 17 | 16 0 31 |
| 24 17 28 | FEB. . | 17 4 51 | 17 18 25 | 24 10 55 | FEB. . | 14 20 1 | 14 15 39 |
| | MAR. . | 18 17 35 | 19 7 17 | | MAR. . | { 15 8 45 | 15 7 35 |
| | APRIL | 17 6 19 | 17 17 17 | | ○ | { 30 3 7 | 30 9 24 |
| | MAY . | { 16 19 3 | 17 1 9 | | APRIL | 13 21 29 | 13 23 46 |
| | ○ | { 31 13 25 | 31 9 46 | | MAY . | 13 10 13 | 13 15 23 |
| | JUNE . | 15 7 47 | 15 7 57 | | JUNE . | 11 22 57 | 12 5 48 |
| | JULY . | 14 20 31 | 14 14 50 | | JULY . | 11 11 41 | 11 18 38 |
| | AUG. . | 13 9 15 | 12 22 49 | | AUG. . | 10 0 25 | 10 6 5 |
| | SEPT. . | 11 21 59 | 11 8 53 | | SEPT. . | { 8 13 9 | 8 16 39 |
| | OCT. . | 11 10 43 | 10 21 38 | | ○ | { 23 7 31 | 22 20 40 |
| | NOV. . | { 9 23 27 | 9 13 15 | | OCT. . | 8 1 53 | 8 2 58 |
| | ○ | { 24 17 49 | 25 0 1 | | NOV. . | 6 14 37 | 6 13 25 |
| | DEC. . | 9 12 11 | 9 7 13 | | DEC. . | 6 8 21 | 6 0 18 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 200. G. March. <i>d. h. m.</i> 24 16 43 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 197. D.C. March. <i>d. h. m.</i> 24 10 10 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 4 16 5 | 4 11 35 | | JAN. ○ | { 2 7 15 17 1 37 31 19 59 | { 2 18 53 16 19 37 ... |
| | FEB. . | 3 4 49 | 2 23 23 | | FEB. . | ... | { 1 6 54 |
| | MAR. . | { 4 17 33 ○ { 19 11 55 | 4 11 56 20 0 39 | | MAR. . | { 1 8 43 30 21 27 | { 1 16 44 31 0 54 |
| | APRIL . | 3 6 17 | 3 1 27 | | APRIL . | 29 10 11 | 29 8 18 |
| | MAY . | 2 19 1 | 2 16 0 | | MAY . | 28 22 55 | 28 15 40 |
| | JUNE . | { 1 7 45 30 20 29 | 1 7 15 30 22 37 | | JUNE . | 27 11 39 | 27 0 21 |
| | JULY . | 30 9 13 | 30 13 28 | | ○ | { 12 6 1 | 12 13 6 |
| | AUG. . | 28 21 57 | 29 3 26 | | JULY . | { 27 0 23 | 26 11 16 |
| | ○ | { 12 16 19 | 12 2 23 | | AUG. . | 25 18 7 | 25 1 4 |
| | SEPT. . | { 27 10 41 | 27 16 24 | | SEPT. . | 24 1 51 | 23 17 42 |
| | OCT. . | 26 23 23 | 27 4 33 | | OCT. . | 23 14 35 | 23 12 20 |
| | NOV. . | 25 12 9 | 25 16 1 | | NOV. . | 22 3 19 | 22 7 36 |
| | DEC. . | 25 0 53 | 25 2 56 | | DEC. . | 21 16 8 | 22 1 51 |
| 199. F. 24 22 32 | JAN. . | 23 13 33 | 23 13 21 | 196. B. 24 15 59 | ○ | { 5 10 25 | 5 2 9 |
| | FEB. . | 22 2 22 | 21 23 25 | | JAN. . | { 20 4 48 | 20 17 52 |
| | MAR. . | 23 15 6 | 23 9 39 | | FEB. . | 18 17 32 | 19 6 58 |
| | APRIL . | 22 3 50 | 21 20 41 | | MAR. . | 20 6 16 | 20 17 15 |
| | MAY . | 21 16 34 | 21 9 7 | | APRIL . | 18 19 0 | 19 1 23 |
| | JUNE . | 20 5 18 | 19 23 13 | | MAY . | 18 7 44 | 18 8 17 |
| | JULY . | 19 13 2 | 19 14 47 | | JUNE . | 16 20 28 | 16 15 1 |
| | AUG. . | 18 6 46 | 18 7 7 | | ○ | { 1 14 50 | 1 19 36 |
| | ○ | { 2 1 8 | 1 15 19 | | JULY . | { 16 9 12 | 15 22 41 |
| | SEPT. . | { 16 19 30 | 16 23 25 | | AUG. . | 14 21 56 | 14 8 23 |
| | OCT. . | 16 8 14 | 16 14 57 | | SEPT. . | 13 10 40 | 12 20 54 |
| | NOV. . | 14 20 53 | 15 5 15 | | OCT. . | 12 23 24 | 12 12 31 |
| | DEC. . | 14 9 42 | 14 18 4 | | NOV. . | 11 12 8 | 11 6 43 |
| 198. E. 25 4 21 | JAN. . | 12 22 27 | 13 5 23 | 195. A. 24 21 43 | DEC. . | { 11 0 52 25 19 14 | 11 2 14 23 18 32 |
| | FEB. . | 11 11 11 | 11 15 15 | | JAN. . | 9 13 37 | 9 21 25 |
| | MAR. . | 12 23 55 | 13 0 5 | | FEB. . | 8 2 21 | 8 14 42 |
| | APRIL . | 11 12 39 | 11 8 32 | | MAR. . | 9 15 5 | 10 5 8 |
| | MAY . | 11 1 23 | 10 17 27 | | APRIL . | 8 3 49 | 8 16 20 |
| | JUNE . | 9 14 7 | 9 3 43 | | MAY . | 7 13 33 | 8 1 6 |
| | JULY . | { 9 2 51 23 21 13 | 8 16 19 23 23 41 | | JUNE . | 6 5 17 | 6 8 19 |
| | ○ | { 23 21 13 | 23 23 41 | | JULY . | 5 13 1 | 5 15 4 |
| | AUG. . | 7 15 35 | 7 7 16 | | AUG. . | 4 6 45 | 4 22 30 |
| | SEPT. . | 6 4 19 | 6 0 12 | | SEPT. . | 2 19 29 | 2 7 33 |
| | OCT. . | 5 17 3 | 5 18 11 | | OCT. . | { 2 8 13 31 20 57 | 1 18 59 31 9 15 |
| | NOV. . | 4 5 47 | 4 12 0 | | NOV. . | 30 9 41 | 30 2 6 |
| | DEC. . | 3 18 31 | 4 4 29 | | DEC. . | 29 22 25 | 29 20 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|--------|------------------------------------|------------------------------------|--|--------|------------------------------------|------------------------------------|
| B.C. 194. G. March. <i>d. h. m.</i> 25 3 36 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 191. C. March. <i>d. h. m.</i> 24 21 3 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 28 11 9 | 28 15 37 | | JAN. . | 25 2 19 | 24 21 38 |
| | FEB. . | 26 23 53 | 27 9 24 | | FEB. . | 23 15 3 | 23 9 30 |
| | MAR.. | 23 12 37 | 29 0 52 | | MAR.. | 25 3 47 | 21 22 13 |
| | APRIL | 27 1 21 | 27 13 32 | | APRIL | 23 16 31 | 23 12 1 |
| | ○ | {11 19 43 | 11 11 17 | | MAY . | 23 5 15 | 23 2 48 |
| | MAY . | {26 14 5 | 26 23 36 | | JUNE . | 21 17 59 | 21 18 11 |
| | JUNE . | 25 2 49 | 25 7 54 | | JULY . | 21 6 43 | 21 9 32 |
| | JULY . | 24 15 33 | 24 15 26 | | AUG.. | 19 19 27 | 20 0 14 |
| | AUG.. | 23 4 17 | 22 23 18 | | SEPT.. | 18 8 11 | 18 14 0 |
| | SEPT.. | 21 17 1 | 21 8 19 | | OCT. . | 17 20 55 | 18 2 48 |
| | OCT. . | 21 5 45 | 20 19 7 | | NOV. . | 16 9 39 | 16 14 47 |
| | ○ | {5 0 7 | 5 7 45 | | DEC. . | 15 22 23 | 16 2 2 |
| | NOV. . | {19 18 29 | 19 8 1 | | | | |
| | DEC. . | 19 7 13 | 18 23 1 | | | | |
| 193. F.E. 24 9 25 | JAN. . | 17 19 58 | 17 15 43 | 190. B. 25 2 52 | JAN. . | 14 11 7 | 14 12 33 |
| | FEB. . | 16 8 42 | 16 9 15 | | FEB. . | {12 23 52 | 12 22 35 |
| | MAR.. | 16 21 26 | 17 2 31 | | ○ | {27 18 14 | 28 6 9 |
| | APRIL | {15 10 10 | 15 18 39 | | MAR.. | 14 12 36 | 14 8 24 |
| | ○ | {30 4 32 | 30 0 7 | | APRIL | 13 1 20 | 12 13 40 |
| | MAY . | 14 22 54 | 15 8 43 | | MAY . | 12 14 4 | 12 6 7 |
| | JUNE . | 13 11 38 | 13 20 34 | | JUNE . | 11 2 48 | 10 19 15 |
| | JULY . | 13 0 22 | 13 6 38 | | JULY . | 10 15 32 | 10 10 9 |
| | AUG.. | 11 13 6 | 11 15 42 | | AUG.. | {9 4 16 | 9 2 20 |
| | SEPT.. | 10 1 50 | 10 0 39 | | ○ | {23 22 33 | 23 14 54 |
| | OCT. . | {9 14 34 | 9 10 11 | | SEPT.. | 7 17 0 | 7 13 59 |
| | ○ | {24 8 56 | 24 9 57 | | OCT. . | 7 5 44 | 7 11 16 |
| | NOV. . | 8 3 18 | 7 20 47 | | NOV. . | 5 18 28 | 6 2 30 |
| | DEC. . | 7 16 2 | 7 8 31 | | DEC. . | 5 7 12 | 5 16 14 |
| 192. D. 24 15 14 | JAN. . | 6 4 46 | 5 21 36 | 189. A.G. 24 8 41 | JAN. . | 3 19 56 | 4 4 17 |
| | FEB. . | 4 17 30 | 4 11 54 | | FEB. . | {2 3 40 | 2 14 44 |
| | MAR.. | 6 6 15 | 6 3 12 | | ○ | {17 3 2 | 17 6 48 |
| | APRIL | {4 18 59 | 4 19 6 | | MAR.. | 2 21 24 | 2 23 52 |
| | ○ | {19 13 21 | 19 16 57 | | APRIL | {1 10 8 | 1 8 11 |
| | MAY . | 4 7 43 | 4 10 58 | | MAY . | {30 22 52 | 30 16 31 |
| | JUNE . | 2 20 27 | 3 2 3 | | JUNE . | 30 11 36 | 30 1 53 |
| | JULY . | {2 9 11 | 2 15 49 | | JULY . | 29 0 20 | 28 13 10 |
| | AUG.. | {31 21 55 | {1 4 10 | | ○ | {12 7 26 | 12 7 38 |
| | SEPT.. | 30 10 39 | {30 15 22 | | AUG.. | {27 1 48 | 26 19 4 |
| | ○ | {18 17 45 | 18 9 18 | | SEPT.. | 25 14 32 | 25 12 52 |
| | OCT. . | {28 12 7 | 28 12 34 | | OCT. . | 25 3 16 | 25 7 8 |
| | NOV. . | 27 0 51 | 26 23 19 | | NOV. . | 23 16 0 | 24 0 36 |
| | DEC. . | 26 13 35 | 26 10 19 | | DEC. . | 23 4 44 | 23 16 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 188. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 185. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 21 17 29 | 22 5 26 | C.B. | JAN. . | 19 8 39 | 19 9 54 |
| March. | ○ | { 5 11 51 | 5 7 37 | March. | FEB. . | 17 21 23 | 18 4 26 |
| <i>d. h. m.</i> | FEB. . | { 20 6 13 | 20 16 12 | <i>d. h. m.</i> | MAR. . | 18 10 7 | 18 21 2 |
| 24 14 29 | MAR. . | 21 18 57 | 22 0 57 | 24 7 56 | APRIL | 16 22 51 | 17 11 4 |
| | APRIL | 20 7 41 | 20 8 25 | | MAY . | { 16 11 35 | 16 22 23 |
| | MAY . | 19 20 25 | 19 15 32 | | ○ | { 31 5 57 | 30 20 21 |
| | JUNE . | 18 9 9 | 17 23 24 | | JUNE . | 15 0 19 | 15 7 32 |
| | JULY . | 17 21 53 | 17 9 5 | | JULY . | 14 13 3 | 14 15 27 |
| | ○ | { 1 16 15 | 1 22 2 | | AUG. . | 13 1 47 | 12 23 14 |
| | AUG. . | { 16 10 37 | 15 21 27 | | SEPT. . | 11 14 31 | 11 7 46 |
| | SEPT. . | 14 23 21 | 14 12 48 | | OCT. . | 11 3 15 | 10 17 45 |
| | OCT. . | 14 12 5 | 14 6 42 | | NOV. . | { 9 15 59 | 9 5 38 |
| | NOV. . | 13 0 49 | 13 1 58 | | ○ | { 24 10 21 | 24 19 44 |
| | DEC. . | 12 13 33 | 12 20 59 | | DEC. . | 9 4 43 | 8 19 32 |
| 187. | JAN. . | 11 2 18 | 11 14 17 | | | | |
| E. | FEB. . | 9 15 2 | 10 4 49 | 184. | JAN. . | 7 17 28 | 7 11 16 |
| 24 20 18 | MAR. . | 11 3 46 | 11 16 23 | A. | FEB. . | 6 6 12 | 6 4 14 |
| | APRIL | 9 16 30 | 10 1 23 | 24 13 45 | MAR. . | 7 18 56 | 7 21 34 |
| | MAY . | 9 5 14 | 9 8 41 | | APRIL | 6 7 40 | 6 14 13 |
| | JUNE . | 7 17 58 | 7 15 19 | | MAY . | 5 20 24 | 6 5 18 |
| | JULY . | 7 6 42 | 6 22 24 | | JUNE . | 4 9 8 | 4 18 19 |
| | AUG. . | 5 19 26 | 5 7 2 | | JULY . | 3 21 52 | 4 5 22 |
| | SEPT. . | 4 8 10 | 3 18 8 | | AUG. . | { 2 10 36 | 2 15 3 |
| | OCT. . | 3 20 54 | 3 8 17 | | | { 31 23 20 | { 1 0 11 |
| | NOV. . | 2 9 38 | 2 1 20 | | SEPT. . | 30 12 4 | { 30 9 35 |
| | | { 1 22 22 | 1 20 24 | | OCT. . | 30 0 48 | 29 19 45 |
| | DEC. ○ | { 16 16 44 | 16 17 38 | | NOV. . | 28 13 32 | 28 6 56 |
| | | { 31 11 6 | 31 15 56 | | DEC. . | 28 2 16 | 27 19 15 |
| 186. | JAN. . | 29 23 50 | 30 10 12 | | | | |
| D. | FEB. . | 28 12 34 | ... | 183. | JAN. . | 26 15 0 | 26 8 41 |
| 25 2 7 | MAR. . | { ... | 1 2 2 | G. | FEB. . | 25 3 44 | 24 23 12 |
| | | { 30 1 18 | 30 14 46 | 24 19 34 | MAR. . | 26 16 28 | 26 14 36 |
| | APRIL | 23 14 2 | 29 0 40 | | ○ | { 10 10 50 | 10 17 8 |
| | MAY . | 23 2 46 | 23 8 31 | | APRIL | { 25 5 12 | 25 6 23 |
| | ○ | { 11 21 8 | 11 16 13 | | MAY . | 24 17 56 | 24 21 52 |
| | JUNE . | { 26 15 30 | 26 15 26 | | JUNE . | 23 6 40 | 23 12 26 |
| | JULY . | 26 4 14 | 25 22 30 | | JULY . | 22 19 24 | 23 1 41 |
| | AUG. . | 24 16 58 | 24 6 45 | | AUG. . | 21 8 8 | 21 13 41 |
| | SEPT. . | 23 5 42 | 22 17 2 | | SEPT. . | 19 20 52 | 20 0 50 |
| | OCT. . | 22 18 26 | 22 5 55 | | ○ | { 4 15 14 | 4 4 22 |
| | NOV. . | 21 7 10 | 20 21 30 | | OCT. . | { 19 9 36 | 19 11 36 |
| | ○ | { 6 1 32 | 6 8 52 | | NOV. . | 17 22 20 | 17 22 22 |
| | DEC. . | { 20 19 54 | 20 15 14 | | DEC. . | 17 11 4 | 17 9 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 182. F. March. d. h. m. 25 1 22 | | d. h. m. | d. h. m. | B.C. 179. D. March. d. h. m. 24 18 49 | | d. h. m. | d. h. m. |
| | JAN. . | 15 23 49 | 15 20 15 | | JAN. . | { 12 14 59 | 13 3 22 |
| | FEB. . | 14 12 38 | 14 7 33 | | ○ | { 27 9 21 | 27 3 38 |
| | MAR. . | { 16 1 17 | 15 19 30 | | FEB. . | 11 3 43 | 11 15 15 |
| | ○ | { 30 19 39 | 31 8 7 | | MAR. . | 12 16 27 | 13 0 49 |
| | APRIL | 14 14 1 | 14 8 27 | | APRIL | 11 5 11 | 11 8 40 |
| | MAY . | 14 2 45 | 13 22 35 | | MAY . | 10 17 55 | 10 15 42 |
| | JUNE . | 12 15 29 | 12 13 42 | | JUNE . | 9 6 39 | 8 22 58 |
| | JULY . | 12 4 13 | 12 5 13 | | JULY . | { 8 19 23 | 8 7 35 |
| | AUG. . | 10 16 57 | 10 20 31 | | ○ | { 23 13 45 | 23 20 21 |
| | SEPT. . | { 9 5 41 | 9 11 5 | | AUG. . | 7 8 7 | 6 18 33 |
| | ○ | { 24 0 3 | 23 10 26 | | SEPT. . | 5 20 51 | 5 8 19 |
| | OCT. . | 8 18 25 | 9 0 39 | | OCT. . | 5 9 35 | 5 1 18 |
| | NOV. . | 7 7 9 | 7 13 16 | | NOV. . | 3 22 19 | 3 20 11 |
| | DEC. . | 6 19 53 | 7 0 58 | | DEC. . | 3 11 3 | 3 15 39 |
| 181. E.D. 24 7 11 | JAN. . | 5 8 38 | 5 11 49 | 178. A. 23 0 38 | JAN. ○ | { 1 23 48 | 2 10 0 |
| | FEB. . | 3 21 22 | 3 21 54 | | | { 16 18 10 | 16 12 47 |
| | MAR. . | { 4 10 6 | 4 7 30 | | | { 31 12 32 | ... |
| | ○ | { 19 4 28 | 19 17 15 | | FEB. . | ... | 1 1 57 |
| | APRIL | 2 22 50 | 2 17 12 | | MAR. . | { 2 1 16 | 2 14 54 |
| | MAY . | 2 11 34 | { 2 3 44 | | | { 31 14 0 | { 1 1 0 |
| | JUNE . | { 1 0 18 | { 31 15 50 | | APRIL | 30 2 44 | { 30 8 57 |
| | | { 30 13 2 | 30 5 48 | | MAY . | 29 15 28 | 29 15 44 |
| | JULY . | 30 1 46 | 29 21 30 | | JUNE . | 28 4 12 | 27 22 28 |
| | AUG. . | 28 14 30 | 28 14 13 | | ○ | { 12 22 34 | 13 2 19 |
| | ○ | { 12 8 52 | 11 23 30 | | JULY . | { 27 16 56 | 27 6 15 |
| | SEPT. . | { 27 3 14 | 27 7 5 | | AUG. . | 26 5 40 | 25 16 6 |
| | OCT. . | 26 15 58 | 26 23 10 | | SEPT. . | 24 18 24 | 24 4 47 |
| | NOV. . | 25 4 42 | 25 13 53 | | OCT. . | 24 7 8 | 23 20 29 |
| | DEC. . | 24 17 26 | 25 2 51 | | NOV. . | 22 19 52 | 22 14 45 |
| 180. C. 24 13 0 | JAN. . | 23 6 10 | 23 14 1 | 177. G.F. 24 6 27 | ○ | { 6 2 53 | 6 3 24 |
| | FEB. . | 21 18 54 | 21 28 35 | | JAN. . | { 20 21 20 | 21 5 13 |
| | MAR. . | 23 7 33 | 23 8 2 | | FEB. . | 19 10 4 | 19 22 18 |
| | APRIL | 21 20 22 | 21 16 2 | | MAR. . | 19 22 48 | 20 12 30 |
| | MAY . | 21 9 6 | 21 0 35 | | APRIL | 18 11 32 | 18 23 42 |
| | JUNE . | 19 21 50 | 19 10 43 | | MAY . | 18 0 16 | 18 8 26 |
| | JULY . | 19 10 34 | 18 23 10 | | JUNE . | 16 13 0 | 16 15 44 |
| | AUG. . | 17 23 13 | 17 14 15 | | JULY . | 16 1 44 | 15 22 40 |
| | SEPT. . | 16 12 2 | 16 7 29 | | AUG. . | 14 14 28 | 14 6 21 |
| | OCT. . | 16 0 46 | 16 1 54 | | SEPT. . | 13 3 12 | 12 15 39 |
| | NOV. . | 14 18 30 | 14 20 8 | | OCT. . | 12 15 56 | 12 3 18 |
| | DEC. . | 14 2 14 | 14 12 53 | | NOV. . | 11 4 40 | 10 17 34 |
| | | | | | DEC. . | 10 17 24 | 10 10 17 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 176. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 173. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 9 6 9 | 9 4 34 | March. | JAN. . | 6 21 19 | 6 19 7 |
| <i>d. h. m.</i> | FEB. . | 7 18 53 | 7 23 8 | <i>d. h. m.</i> | FEB. . | 5 10 3 | 5 6 2 |
| 24 12 15 | MAR. . | 9 7 37 | 9 16 37 | 24 5 42 | MAR. . | 5 22 47 | 5 17 20 |
| | APRIL . | 7 20 21 | 8 7 54 | | APRIL . | 4 11 31 | 4 5 26 |
| | MAY . | { 7 9 5 | 7 20 33 | | MAY . | 4 0 15 | 3 18 44 |
| | ○ | { 22 3 27 | 21 18 19 | | JUNE . | 2 12 59 | 2 9 18 |
| | JUNE . | 5 21 49 | 6 6 45 | | JULY . | { 2 1 43 | 2 0 48 |
| | JULY . | 5 10 33 | 5 15 18 | | | { 31 14 27 | 31 16 23 |
| | AUG. . | 3 23 17 | 3 23 12 | | AUG. . | 30 8 11 | 30 7 37 |
| | SEPT. . | 2 12 1 | 2 7 26 | | SEPT. . | 28 15 55 | 28 22 0 |
| | | | | | OCT. . | 28 4 39 | 28 11 22 |
| | OCT. . | { 2 0 45 | 1 16 48 | | NOV. . | 26 17 23 | 26 23 39 |
| | ○ | { 31 13 29 | 31 3 47 | | DEC. . | 26 6 7 | 26 10 56 |
| | NOV. . | { 15 7 51 | 15 16 2 | | | | |
| | DEC. . | { 30 2 13 | 29 16 39 | | | | |
| | | 29 14 57 | 29 7 21 | | | | |
| 175. | JAN. . | 28 3 41 | 27 23 33 | 172. | JAN. . | 24 18 51 | 24 21 16 |
| D. | FEB. . | 26 16 25 | 26 16 33 | G. | FEB. . | 23 7 35 | 23 6 50 |
| 24 18 4 | MAR. . | 23 5 9 | 23 9 27 | 24 11 31 | ○ | { 10 1 57 | 10 18 27 |
| | APRIL . | 26 17 53 | 27 1 19 | | MAR. . | { 24 20 19 | 24 16 9 |
| | ○ | { 11 12 15 | 11 7 31 | | APRIL . | 23 9 8 | 23 1 55 |
| | MAY . | { 26 6 37 | 26 15 25 | | MAY . | 22 21 47 | 22 12 58 |
| | JUNE . | 24 19 21 | 25 3 33 | | JUNE . | 21 10 31 | 21 1 52 |
| | JULY . | 24 8 5 | 24 14 1 | | JULY . | 20 23 15 | 20 16 47 |
| | AUG. . | 22 20 49 | 22 23 34 | | AUG. . | 19 11 59 | 19 9 15 |
| | SEPT. . | 21 9 33 | 21 9 0 | | ○ | { 8 6 21 | 2 28 0 |
| | OCT. . | 20 22 17 | 20 18 55 | | SEPT. . | { 18 0 43 | 18 2 25 |
| | ○ | { 4 16 39 | 4 17 48 | | OCT. . | 17 18 27 | 17 19 15 |
| | NOV. . | { 19 11 1 | 19 5 38 | | NOV. . | 16 2 11 | 16 10 58 |
| | DEC. . | 18 23 45 | 18 17 20 | | DEC. . | 15 14 55 | 15 0 57 |
| 174. | JAN. . | 17 12 30 | 17 6 2 | 171. | JAN. . | 14 8 40 | 14 13 0 |
| C. | FEB. . | 16 1 14 | 15 19 44 | V. | FEB. . | { 12 18 24 | 12 23 12 |
| 24 23 53 | MAR. . | 17 13 58 | 17 10 26 | 24 17 20 | ○ | { 27 10 43 | 27 14 5 |
| | APRIL . | { 16 2 42 | 16 1 51 | | MAR. . | 14 5 8 | 14 7 56 |
| | ○ | { 30 21 4 | { 1 0 31 | | APRIL . | 12 17 52 | 12 15 52 |
| | MAY . | 15 15 26 | { 15 17 27 | | MAY . | 12 6 36 | 11 23 50 |
| | JUNE . | 14 4 10 | 14 8 35 | | JUNE . | 10 19 20 | 10 8 56 |
| | JULY . | 13 16 54 | 13 22 41 | | JULY . | 10 8 4 | 9 20 6 |
| | AUG. . | 12 5 38 | 12 11 32 | | AUG. . | { 8 20 48 | 8 9 54 |
| | SEPT. . | 10 18 22 | 10 23 20 | | ○ | { 23 15 10 | 23 15 35 |
| | OCT. . | { 10 7 6 | 10 10 31 | | SEPT. . | 7 9 32 | 7 2 15 |
| | ○ | { 25 1 28 | 24 17 9 | | OCT. . | 6 22 16 | 6 20 26 |
| | NOV. . | 8 19 50 | 8 21 24 | | NOV. . | 5 11 0 | 5 15 8 |
| | DEC. . | 8 8 34 | 8 8 16 | | DEC. . | 4 23 44 | 5 8 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 170. E. March. d. h. m. 24 23 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 167. A. March. d. h. m. 24 16 85 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 12 29 | 4 0 40 | | JAN. . | 29 16 23 | 29 17 43 |
| | FEB. . | { 2 1 13 | 2 13 47 | | FEB. . | 28 5 7 | 28 11 43 |
| | ○ | 16 19 35 | 16 15 17 | | MAR. . | 29 17 51 | 30 4 4 |
| | MAR. . | 8 13 57 | 4 0 21 | | APRIL | 28 6 35 | 28 18 3 |
| | APRIL | 2 2 41 | 2 8 49 | | MAY . | 27 19 19 | 28 5 26 |
| | MAY . | { 1 15 25 | 1 15 59 | | ○ | { 11 13 41 | 11 3 15 |
| | JUNE . | 81 4 9 | 30 22 56 | | JUNE . | { 26 8 8 | 26 14 49 |
| | JULY . | 29 16 53 | 29 6 41 | | JULY . | 25 20 47 | 25 28 6 |
| | ○ | { 12 23 59 | 13 5 34 | | AUG. . | 24 9 31 | 24 7 15 |
| | AUG. . | { 27 18 21 | 27 4 51 | | SEPT. . | 22 22 15 | 22 16 9 |
| | SEPT. . | 26 7 5 | 25 20 22 | | OCT. . | 22 10 59 | 22 2 24 |
| | OCT. . | 25 19 49 | 25 14 29 | | NOV. . | 20 23 43 | 20 14 20 |
| | NOV. . | 24 8 33 | 24 9 55 | | ○ | { 5 18 5 | 6 4 12 |
| | DEC. . | 23 21 17 | 24 5 4 | | DEC. . | { 20 12 27 | 20 4 2 |
| 169. D.C. 24 4 57 | JAN. . | 22 10 1 | 22 22 20 | 166. G. 24 22 24 | JAN. . | 19 1 11 | 18 19 19 |
| | FEB. . | 20 22 45 | 21 12 44 | | FEB. . | 17 13 55 | 17 11 45 |
| | MAR. . | 21 11 29 | 22 0 7 | | MAR. . | 19 2 39 | 19 4 35 |
| | APRIL | 20 0 13 | 20 8 56 | | APRIL | 17 15 23 | 17 20 56 |
| | MAY . | 19 12 57 | 19 16 8 | | MAY . | 17 4 7 | 17 11 56 |
| | JUNE . | 18 1 41 | 17 22 45 | | JUNE . | 15 16 51 | 16 1 8 |
| | JULY . | 17 14 25 | 17 5 55 | | JULY . | 15 5 35 | 15 12 33 |
| | AUG. . | 16 3 9 | 15 14 43 | | AUG. . | 13 18 19 | 13 22 43 |
| | SEPT. . | 14 15 53 | 14 2 0 | | SEPT. . | 12 7 8 | 12 8 22 |
| | OCT. . | 14 4 37 | 13 16 17 | | OCT. . | 11 19 47 | 11 18 11 |
| | NOV. . | 12 17 21 | 12 9 23 | | NOV. . | 10 8 31 | 10 4 36 |
| | DEC. . | { 12 6 5 | 12 4 23 | | DEC. . | 9 21 15 | 9 15 49 |
| | ○ | { 27 0 27 | 27 2 32 | | | | |
| 168. D. 24 10 46 | JAN. . | 10 18 50 | 10 23 46 | 165. F.E. 24 4 18 | JAN. . | 8 10 0 | 8 3 52 |
| | FEB. . | 9 7 34 | 9 17 53 | | FEB. . | 6 22 44 | 6 16 48 |
| | MAR. . | 10 20 18 | 11 9 30 | | MAR. . | 7 11 23 | 7 6 41 |
| | APRIL | 9 9 2 | 9 22 8 | | APRIL | { 6 0 12 | 5 21 31 |
| | MAY . | 8 21 46 | 9 7 53 | | ○ | { 20 18 34 | 21 0 47 |
| | JUNE . | { 7 10 30 | 7 15 53 | | MAY . | 5 12 56 | 5 12 56 |
| | ○ | { 22 4 52 | 21 22 45 | | JUNE . | 4 1 40 | 4 4 22 |
| | JULY . | 6 23 14 | 6 22 57 | | JULY . | 3 14 24 | 3 19 7 |
| | AUG. . | 5 11 53 | 5 6 16 | | AUG. . | { 2 3 8 | 2 3 50 |
| | SEPT. . | 4 0 42 | 3 14 48 | | | { 31 15 52 | 31 21 25 |
| | OCT. . | 3 18 26 | 3 1 20 | | SEPT. . | 30 4 36 | 30 9 8 |
| | NOV. . | 2 2 10 | 1 14 19 | | ○ | { 14 22 53 | 14 12 14 |
| | DEC. ○ | { 1 14 54 | 1 5 49 | | OCT. . | { 29 17 20 | 29 20 21 |
| | | { 16 9 16 | 16 17 43 | | NOV. . | 28 6 4 | 28 7 20 |
| | | { 31 8 33 | 30 23 17 | | DEC. . | 27 18 43 | 27 18 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 164. D. March. d. h. m. 24 10 1 | | d. h. m. | d. h. m. | B.C. 161. A.G. March. d. h. m. 24 3 28 | | d. h. m. | d. h. m. |
| | JAN. . | 26 7 38 | 26 4 50 | | JAN. . | 23 22 42 | 24 11 44 |
| | FEB. . | 24 20 17 | 24 15 37 | | ○ | 7 17 4 | 7 11 32 |
| | MAR. . | 26 9 1 | 26 2 57 | | FEB. . | 22 11 26 | 22 23 26 |
| | ○ | 10 3 23 | 10 15 47 | | MAR. . | 23 0 10 | 23 8 43 |
| | APRIL | 24 21 45 | 24 15 23 | | APRIL | 21 12 54 | 21 16 17 |
| | MAY . | 24 10 29 | 24 5 10 | | MAY . | 21 1 38 | 20 23 8 |
| | JUNE . | 22 23 13 | 22 20 10 | | JUNE . | 19 14 22 | 19 6 18 |
| | JULY . | 22 11 57 | 22 11 54 | | JULY . | 19 3 6 | 18 14 54 |
| | AUG. . | 21 0 41 | 21 3 40 | | ○ | 2 21 23 | 3 3 39 |
| | SEPT. . | 19 13 25 | 19 18 50 | | AUG. . | 17 15 50 | 17 1 57 |
| | ○ | 4 7 47 | 3 18 37 | | SEPT. . | 16 4 34 | 15 16 2 |
| | OCT. . | 19 2 9 | 19 9 0 | | OCT. . | 15 17 18 | 15 9 2 |
| | NOV. . | 17 14 53 | 17 22 1 | | NOV. . | 14 6 2 | 14 4 5 |
| | DEC. . | 17 3 87 | 17 9 53 | | DEC. . | 13 18 46 | 13 23 47 |
| 163. C. 24 15 50 | JAN. . | 15 16 21 | 15 20 36 | 160. F. 24 9 17 | JAN. . | 12 7 31 | 12 18 0 |
| | FEB. . | 14 5 5 | 14 6 20 | | ○ | 27 1 53 | 26 21 14 |
| | MAR. . | 15 17 49 | 15 15 28 | | FEB. . | 10 20 15 | 11 9 52 |
| | ○ | 30 12 11 | 31 0 25 | | MAR. . | 12 8 59 | 12 22 40 |
| | APRIL | 14 6 33 | 14 0 37 | | APRIL | 10 21 43 | 11 8 35 |
| | MAY . | 13 19 17 | 13 10 43 | | MAY . | 10 10 27 | 10 16 25 |
| | JUNE . | 12 8 1 | 11 22 32 | | JUNE . | 8 23 11 | 8 23 10 |
| | JULY . | 11 20 45 | 11 12 26 | | JULY . | 8 11 55 | 8 5 59 |
| | AUG. . | 10 9 29 | 10 4 19 | | ○ | 23 6 17 | 23 9 5 |
| | SEPT. . | 8 22 13 | 8 21 27 | | AUG. . | 7 0 39 | 6 13 55 |
| | ○ | 23 16 35 | 23 7 51 | | SEPT. . | 5 13 23 | 4 23 58 |
| | OCT. . | 8 10 57 | 8 14 50 | | OCT. . | 5 2 7 | 4 12 48 |
| | NOV. . | 6 23 41 | 7 7 27 | | NOV. . | 3 14 51 | 3 4 35 |
| | DEC. . | 6 12 25 | 6 22 29 | | DEC. . | 3 3 35 | 2 22 45 |
| 162. B. 24 21 39 | JAN. . | 5 1 10 | 5 11 34 | 159. E. 24 15 6 | JAN. ○ | 1 16 20 | 1 18 4 |
| | FEB. . | 3 13 54 | 3 22 34 | | ○ | 16 10 42 | 16 12 10 |
| | MAR. . | 5 2 38 | 5 7 49 | | ... | 31 5 4 | 31 12 54 |
| | APRIL | 3 15 22 | 3 15 50 | | FEB. . | ... | ... |
| | MAY . | 3 4 6 | 2 23 30 | | MAR. . | 1 17 48 | 2 5 47 |
| | JUNE . | 1 16 50 | 1 7 47 | | ○ | 31 6 32 | 31 19 50 |
| | JULY . | 1 5 34 | 30 17 44 | | APRIL | 29 19 16 | 30 6 59 |
| | ○ | 30 18 18 | 30 6 10 | | MAY . | 29 8 0 | 29 15 45 |
| | AUG. . | 29 7 2 | 23 21 24 | | JUNE . | 27 20 44 | 27 23 12 |
| | SEPT. . | 27 19 46 | 27 14 57 | | JULY . | 27 9 23 | 27 6 23 |
| | OCT. . | 27 8 30 | 27 9 44 | | AUG. . | 25 22 12 | 25 14 21 |
| | NOV. . | 25 21 14 | 26 4 17 | | SEPT. . | 24 10 56 | 23 23 57 |
| | DEC. . | 25 9 58 | 25 21 15 | | OCT. . | 23 23 40 | 23 11 45 |
| | | | | | NOV. . | 22 12 24 | 22 2 0 |
| | | | | | DEC. . | 22 1 8 | 21 18 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 158. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 155. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. March. <i>d. h. m.</i> 24 20 54 | JAN. . | 20 13 52 | 20 12 19 | G. March. <i>d. h. m.</i> 24 14 21 | JAN. . | 17 5 2 | 17 3 50 |
| | FEB. . | 19 2 36 | 19 6 30 | | FEB. . | 15 17 46 | 15 14 18 |
| | MAR. . | 20 15 20 | 20 23 41 | | MAR. . | 17 6 30 | 17 1 0 |
| | APRIL . | 19 4 4 | 19 14 48 | | APRIL . | 15 19 14 | 15 12 33 |
| | MAY . | 18 16 48 | 19 3 30 | | MAY . | 15 7 58 | 15 1 25 |
| | ○ | { 2 11 10 | 2 1 19 | | JUNE . | 13 20 42 | 13 15 45 |
| | JUNE . | { 17 5 32 | 17 13 54 | | JULY . | 13 9 26 | 13 7 16 |
| | JULY . | 16 18 16 | 16 22 46 | | AUG. . | 11 22 10 | 11 23 17 |
| | AUG. . | 15 7 0 | 15 7 8 | | SEPT. . | 10 10 54 | 10 15 7 |
| | SEPT. . | 13 19 44 | 13 15 42 | | OCT. . | 9 23 38 | 10 6 6 |
| | OCT. . | 13 8 28 | 13 1 23 | | NOV. . | 8 12 22 | 8 19 59 |
| | NOV. . | { 11 21 12 | 11 12 31 | | DEC. . | 8 1 6 | 8 8 31 |
| | ○ | { 26 15 34 | 27 0 21 | | | | |
| | DEC. . | 11 9 56 | 11 1 17 | 154. | JAN. . | 6 13 51 | 6 19 47 |
| | | | | F. | FEB. . | 5 2 35 | 5 5 51 |
| 57 | JAN. . | 9 22 41 | 9 15 38 | 24 20 10 | MAR. . | { 6 15 19 | 6 14 59 |
| C.B. | FEB. . | 8 11 25 | 8 7 18 | | ○ | { 21 9 41 | 21 20 38 |
| 24 2 43 | MAR. . | 9 0 9 | 8 23 46 | | APRIL . | 5 4 3 | 4 23 48 |
| | APRIL . | 7 12 53 | 7 16 15 | | MAY . | 4 16 47 | 4 9 6 |
| | MAY . | { 7 1 37 | 7 7 55 | | JUNE . | 3 5 31 | 2 19 49 |
| | ○ | { 21 19 59 | 21 14 56 | | JULY . | 2 18 16 | { 2 8 35 |
| | JUNE . | 5 14 21 | 5 22 6 | | | | { 31 28 35 |
| | JULY . | 5 3 5 | 5 10 33 | | AUG. . | { 1 7 0 | |
| | AUG. . | 3 15 49 | 3 21 30 | | | { 30 19 44 | 30 16 22 |
| | SEPT. . | 2 4 33 | 2 7 34 | | ○ | { 14 14 6 | 14 7 18 |
| | OCT. . | { 1 17 17 | 1 17 28 | | SEPT. . | { 29 8 28 | 29 10 0 |
| | | { 31 6 1 | 31 3 44 | | OCT. . | 28 21 12 | 29 3 32 |
| | ○ | { 15 0 23 | 15 1 45 | | NOV. . | 27 9 56 | 27 19 23 |
| | NOV. . | { 29 18 45 | 29 14 35 | | DEC. . | 26 22 40 | 27 9 33 |
| | DEC. . | 29 7 29 | 29 2 6 | | | | |
| 156. | JAN. . | 27 20 14 | 27 14 21 | 153. | JAN. . | 25 11 24 | 25 21 36 |
| A. | FEB. . | 26 8 58 | 26 3 28 | E.D. | FEB. . | 24 0 8 | 24 7 32 |
| 24 8 32 | MAR. . | 27 21 42 | 27 17 33 | 24 1 59 | ○ | { 9 18 30 | 9 21 13 |
| | APRIL . | 26 10 26 | 26 8 30 | | MAR. . | { 24 12 52 | 24 15 53 |
| | ○ | { 11 4 48 | 11 8 2 | | APRIL . | 23 1 36 | 22 23 26 |
| | MAY . | { 25 23 10 | 25 23 55 | | MAY . | 22 14 20 | 22 7 7 |
| | JUNE . | 24 11 54 | 24 13 8 | | JUNE . | 21 3 4 | 20 16 2 |
| | JULY . | 24 0 33 | 24 5 36 | | JULY . | 20 15 48 | 20 3 8 |
| | AUG. . | 22 13 22 | 22 19 1 | | AUG. . | 19 4 32 | 18 17 2 |
| | SEPT. . | 21 2 6 | 21 7 26 | | ○ | { 2 22 54 | 2 23 41 |
| | OCT. . | 20 14 50 | 20 19 7 | | SEPT. . | { 17 17 16 | 17 9 39 |
| | ○ | { 4 9 12 | 4 1 7 | | OCT. . | 17 6 0 | 17 4 8 |
| | NOV. . | { 19 8 34 | 19 6 20 | | NOV. . | 15 18 44 | 15 23 9 |
| | DEC. . | 18 16 18 | 18 17 14 | | DEC. . | 15 7 23 | 15 17 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 152. c. March. <i>d. h. m.</i> 24 7 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 149. G.F. March. <i>d. h. m.</i> 24 1 14 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 20 12 | 14 8 59 | | JAN. . | 11 11 22 | 11 7 16 |
| | FEB. . | { 12 8 56 | 12 22 0 | | FEB. . | 10 0 6 | 10 1 18 |
| | ○ | { 27 3 18 | 26 22 50 | | MAR. . | 10 12 50 | 10 18 50 |
| | MAR. . | 13 21 40 | 14 8 18 | | APRIL | 9 1 34 | 9 10 58 |
| | APRIL | 12 10 24 | 12 16 30 | | MAY . | 8 14 18 | 9 0 58 |
| | MAY . | 11 23 8 | 11 23 30 | | JUNE . | { 7 3 2 | 7 12 26 |
| | JUNE . | 10 11 52 | 10 6 18 | | ○ | { 21 21 24 | 21 10 11 |
| | JULY . | 10 0 36 | 9 14 3 | | JULY . | 6 15 46 | 6 22 8 |
| | AUG. . | { 8 13 20 | 7 23 49 | | AUG. . | 5 4 30 | 5 6 47 |
| | ○ | { 23 7 42 | 23 13 13 | | SEPT. . | 3 17 14 | 3 15 22 |
| | SEPT. . | 7 2 4 | 6 12 24 | | OCT. . | 3 5 58 | 3 0 40 |
| | OCT. . | 6 14 48 | 6 4 6 | | NOV. . | 1 18 42 | { 1 11 10 |
| | NOV. . | 5 3 32 | 4 22 21 | | DEC. ○ | { 1 7 26 | { 30 23 5 |
| | DEC. . | 4 16 16 | 4 17 53 | | | { 16 1 48 | 16 12 87 |
| | | | | | | { 30 20 10 | 30 12 81 |
| 151. a. 24 13 36 | JAN. . | 3 5 1 | 3 13 4 | 148. E. 24 7 3 | JAN. . | 29 8 55 | 29 8 18 |
| | FEB. . | 1 17 45 | 2 6 15 | | FEB. . | 27 21 39 | 27 19 10 |
| | MAR. . | 3 6 29 | 3 20 32 | | MAR. . | 29 10 23 | 29 11 30 |
| | APRIL | 1 19 13 | 2 7 44 | | APRIL | 27 23 7 | 28 8 32 |
| | MAY . | { 1 7 57 | 1 16 26 | | MAY . | 27 11 51 | 27 18 31 |
| | JUNE . | { 30 20 41 | 30 23 35 | | JUNE . | 26 0 35 | 26 7 57 |
| | JULY . | 29 9 25 | 29 6 15 | | JULY . | 25 13 19 | 25 19 49 |
| | AUG. . | 27 10 58 | 26 22 34 | | AUG. . | 24 2 3 | 24 6 31 |
| | SEPT. . | 25 23 37 | 25 10 4 | | SEPT. . | 22 14 47 | 22 16 41 |
| | OCT. . | 25 12 21 | 25 0 26 | | OCT. . | 22 8 31 | 22 2 56 |
| | NOV. . | 24 1 5 | 23 17 29 | | NOV. . | 20 16 15 | 20 13 34 |
| | DEC. . | 23 13 49 | 23 12 20 | | DEC. . | 20 4 50 | 20 0 42 |
| 150. A. 24 19 25 | ○ | { 7 8 11 | 7 11 24 | 147. D. 24 12 52 | JAN. . | 18 17 43 | 18 12 23 |
| | JAN. . | { 22 2 34 | 22 7 29 | | FEB. . | 17 6 27 | 17 0 45 |
| | FEB. . | 20 15 18 | 21 1 23 | | MAR. . | 18 19 11 | 18 14 2 |
| | MAR. . | 22 4 2 | 22 16 50 | | APRIL | 17 7 55 | 17 4 19 |
| | APRIL | 20 16 46 | 21 5 21 | | ○ | { 2 2 17 | 2 8 18 |
| | MAY . | 20 5 30 | 20 15 12 | | MAY . | { 16 20 39 | 16 19 23 |
| | JUNE . | 18 18 14 | 18 23 16 | | JUNE . | 15 9 23 | 15 10 48 |
| | ○ | { 3 12 36 | 3 5 20 | | JULY . | 14 22 7 | 15 1 51 |
| | JULY . | { 18 6 58 | 18 6 34 | | AUG. . | 13 10 51 | 13 16 3 |
| | AUG. . | 16 19 42 | 16 14 10 | | SEPT. . | 11 23 35 | 12 5 15 |
| | SEPT. . | 15 8 26 | 14 23 1 | | OCT. . | { 11 12 19 | 11 17 38 |
| | OCT. . | 14 21 10 | 14 9 47 | | ○ | { 26 6 41 | 25 20 13 |
| | NOV. . | 13 9 54 | 12 22 50 | | NOV. . | 10 1 3 | 10 5 10 |
| | DEC. . | { 12 22 33 | 12 14 9 | | DEC. . | 9 13 47 | 9 16 18 |
| | ○ | { 27 17 0 | 28 2 30 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 146. c. March. d. h. m. 24 18 40 | | d. h. m. | d. h. m. | B.C. 143. f. March. d. h. m. 24 12 7 | | d. h. m. | d. h. m. |
| | JAN. . | 8 2 31 | 8 2 58 | | JAN. . | 4 17 42 | 5 5 32 |
| | FEB. . | 6 15 16 | 6 13 16 | | FEB. . | { 3 6 26 | 3 19 57 |
| | MAR. . | 8 4 0 | 7 23 32 | | ○ | { 18 0 48 | 17 19 21 |
| | APRIL | { 6 16 44 | 6 10 18 | | MAR. . | 4 19 10 | 5 7 28 |
| | ○ | { 21 11 6 | 21 23 8 | | APRIL | 3 7 54 | 3 16 31 |
| | MAY . | 6 5 28 | 5 22 14 | | MAY . | 2 20 38 | 2 23 53 |
| | JUNE . | 4 18 12 | 4 11 42 | | JUNE . | { 1 9 22 | 1 6 35 |
| | JULY . | 4 6 56 | 4 2 40 | | ○ | { 30 22 6 | 30 13 42 |
| | AUG. . | 2 19 40 | 2 18 41 | | JULY . | 30 10 50 | 29 23 22 |
| | SEPT. . | { 1 8 24 | 1 10 55 | | ○ | { 14 5 12 | 14 11 3 |
| | ○ | { 30 21 8 | { 1 2 42 | | AUG. . | { 28 23 34 | 28 9 32 |
| | OCT. . | { 15 15 30 | { 15 2 55 | | SEPT. . | 27 12 18 | 26 23 46 |
| | NOV. . | { 30 9 52 | { 30 17 25 | | OCT. . | 27 1 2 | 26 16 55 |
| | DEC. . | 28 22 36 | 29 6 47 | | NOV. . | 25 13 46 | 25 12 3 |
| | | 28 11 20 | 28 18 44 | | DEC. . | 25 2 30 | 25 7 36 |
| 145. B.A. 21 0 29 | JAN. . | 27 0 5 | 27 5 17 | 142. E. 24 17 56 | JAN. . | 23 15 15 | 24 1 55 |
| | FEB. . | 25 12 49 | 25 14 37 | | ○ | { 7 9 37 | 7 5 36 |
| | MAR. . | 26 1 33 | 25 23 17 | | FEB. . | { 22 3 59 | 22 17 38 |
| | ○ | { 9 19 55 | 10 7 26 | | MAR. . | 23 16 48 | 21 6 17 |
| | APRIL | { 24 14 17 | 24 8 0 | | APRIL | 22 5 27 | 22 16 5 |
| | MAY . | 24 3 1 | 23 17 44 | | MAY . | 21 18 11 | 21 23 51 |
| | JUNE . | 22 15 45 | 22 5 17 | | JUNE . | 20 6 55 | 20 6 39 |
| | JULY . | 22 4 29 | 21 19 12 | | JULY . | 19 10 39 | 19 13 35 |
| | AUG. . | 20 17 13 | 20 11 17 | | ○ | { 3 14 1 | 3 15 58 |
| | SEPT. . | 19 5 57 | 19 4 49 | | AUG. . | { 18 8 23 | 17 21 45 |
| | ○ | { 4 0 19 | 3 16 22 | | SEPT. . | 16 21 7 | 16 8 0 |
| | OCT. . | { 18 18 41 | 18 22 43 | | OCT. . | 16 9 51 | 15 20 59 |
| | NOV. . | 17 7 25 | 17 15 46 | | NOV. . | 14 22 35 | 14 12 46 |
| | DEC. . | 16 20 9 | 17 7 5 | | DEC. . | 14 11 19 | 14 6 48 |
| 144. G. 24 6 18 | JAN. . | 15 8 53 | 15 20 9 | 141. D.C. 23 23 45 | JAN. . | { 13 0 3 | 13 1 51 |
| | FEB. . | 13 21 37 | 14 6 57 | | ○ | { 27 18 25 | 27 20 50 |
| | MAR. . | 15 10 21 | 15 15 52 | | FEB. . | 11 12 47 | 11 20 25 |
| | APRIL | 13 23 5 | 13 23 32 | | MAR. . | 12 1 31 | 12 13 5 |
| | MAY . | 13 11 49 | 13 6 53 | | APRIL | 10 14 15 | 11 3 0 |
| | JUNE . | 12 0 33 | 11 14 57 | | MAY . | 10 2 59 | 10 14 8 |
| | JULY . | 11 13 17 | 11 0 48 | | JUNE . | 8 15 43 | 8 23 1 |
| | AUG. . | 10 2 1 | 9 13 18 | | JULY . | { 8 4 27 | 8 6 41 |
| | SEPT. . | 8 14 45 | 8 4 41 | | ○ | { 22 22 49 | 22 16 21 |
| | OCT. . | 8 3 29 | 7 22 31 | | AUG. . | 6 17 11 | 6 14 10 |
| | NOV. . | 6 16 13 | 6 17 37 | | SEPT. . | 5 5 55 | 4 22 29 |
| | DEC. . | 6 4 57 | 6 12 25 | | OCT. . | 4 13 39 | 4 8 21 |
| | | | | | NOV. . | 3 7 23 | 2 20 17 |
| | | | | | DEC. . | 2 20 7 | 2 10 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 140. B. March. d. h. m. 24 5 33 | JAN. . | d. h. m. 1 8 52 30 21 36 | d. h. m. 1 2 36 30 20 8 | B.C. 137. F.E. March. d. h. m. 23 22 59 | JAN. . | d. h. m. 28 12 46 27 1 30 | d. h. m. 28 12 28 26 22 27 |
| | FEB. . | ... | ... | | FEB. . | 27 14 14 | 27 8 36 |
| | MAR. . | 1 10 20 30 23 4 | 1 13 45 31 6 35 | | MAR. . | 26 2 58 | 25 19 36 |
| | APRIL | 29 11 48 | 29 21 37 | | APRIL | 25 15 42 | 25 8 5 |
| | MAY . | 29 0 32 | 29 10 23 | | MAY . | 24 4 26 | 23 22 17 |
| | ○ | 12 18 54 | 12 8 22 | | JUNE . | 23 17 10 | 23 13 56 |
| | JUNE . | 27 13 16 | 27 21 4 | | JULY . | 22 5 54 | 22 6 22 |
| | JULY . | 27 2 0 | 27 6 18 | | AUG. . | 20 18 38 | 20 22 45 |
| | AUG. . | 25 14 44 | 25 15 3 | | SEPT. . | 20 7 22 | 20 14 19 |
| | SEPT. . | 24 3 28 | 24 0 7 | | OCT. . | 18 20 6 | 19 4 37 |
| | OCT. . | 23 16 12 | 23 10 8 | | NOV. . | 18 8 50 | 18 17 22 |
| | NOV. . | 22 4 56 | 21 21 22 | | DEC. . | | |
| | ○ | 6 23 18 | 7 8 40 | | | | |
| | DEC. . | 21 17 40 | 21 9 56 | 136. D. 24 4 43 | JAN. . | 16 21 35 | 17 4 32 |
| | | | | | FEB. . | 15 10 19 | 15 14 16 |
| 139. A. 24 11 22 | JAN. . | 20 6 25 | 19 23 52 | | MAR. . | 16 23 3 | 16 23 0 |
| | FEB. . | 18 19 9 | 18 14 56 | | ○ | 31 17 25 | 1 8 39 |
| | MAR. . | 20 7 53 | 20 6 50 | | APRIL | 15 11 47 | 15 7 22 |
| | APRIL | 18 20 37 | 18 22 55 | | MAY . | 15 0 31 | 14 16 16 |
| | MAY . | 18 9 21 | 18 14 28 | | JUNE . | 13 13 15 | 13 2 42 |
| | ○ | 2 3 43 | 1 22 18 | | JULY . | 13 1 59 | 12 15 22 |
| | JUNE . | 16 22 5 | 17 4 47 | | AUG. . | 11 14 43 | 11 6 28 |
| | JULY . | 16 10 49 | 16 17 36 | | SEPT. . | 10 3 27 | 9 23 34 |
| | AUG. . | 14 23 33 | 15 5 4 | | ○ | 24 21 49 | 24 15 41 |
| | SEPT. . | 13 12 17 | 13 15 43 | | OCT. . | 9 16 11 | 9 17 39 |
| | OCT. . | 13 1 1 | 13 2 5 | | NOV. . | 8 4 55 | 8 11 29 |
| | NOV. . | 11 13 45 | 11 12 39 | | DEC. . | 7 17 39 | 8 8 56 |
| | ○ | 26 8 7 | 26 9 44 | | | | |
| | DEC. . | 11 2 29 | 10 23 33 | 135. C. 24 10 37 | JAN. . | 6 6 23 | 6 18 11 |
| 138. G. 24 17 11 | JAN. . | 9 15 13 | 9 10 49 | | FEB. . | 4 19 7 | 5 6 1 |
| | FEB. . | 8 3 57 | 7 22 34 | | MAR. . | 6 7 51 | 6 15 41 |
| | MAR. . | 9 16 41 | 9 11 3 | | ○ | 21 2 13 | 21 4 12 |
| | APRIL | 8 5 25 | 8 0 32 | | APRIL | 4 20 35 | 4 28 42 |
| | MAY . | 7 18 9 | 7 15 4 | | MAY . | 4 9 19 | 4 6 57 |
| | ○ | 22 12 31 | 22 15 29 | | JUNE . | 2 22 8 | 2 14 24 |
| | JUNE . | 6 6 53 | 6 6 18 | | JULY . | 2 10 47 | 1 23 11 |
| | JULY . | 5 19 37 | 5 21 42 | | ○ | 31 23 31 | 31 10 18 |
| | AUG. . | 4 8 21 | 4 12 36 | | AUG. . | 30 12 15 | 30 0 18 |
| | SEPT. . | 2 21 5 | 3 2 36 | | ○ | 14 6 37 | 14 7 53 |
| | OCT. . | 2 9 49 | 2 15 37 | | SEPT. . | 29 0 59 | 28 17 7 |
| | ○ | 31 22 33 | 1 3 48 | | OCT. . | 28 13 43 | 28 11 54 |
| | NOV. . | 15 16 55 | 15 9 10 | | NOV. . | 27 2 27 | 27 7 11 |
| | DEC. . | 30 11 17 | 30 15 16 | | DEC. . | 26 15 11 | 27 1 22 |
| | | 30 0 1 | 30 2 9 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 134. B. March. <i>d. h. m.</i> 24 16 26 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 131. E. March. <i>d. h. m.</i> 24 9 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 25 8 56 | 25 17 11 | | ○ | { 7 0 45 | 7 11 12 |
| | FEB. . | 23 16 40 | 24 6 4 | | JAN. . | { 21 19 5 | 21 15 9 |
| | ○ | { 10 11 2 | 10 6 16 | | FEB. . | 20 7 50 | 20 8 37 |
| | MAR. . | { 25 5 24 | 25 16 10 | | MAR. . | 21 20 34 | 22 1 49 |
| | APRIL | 23 18 8 | 24 0 8 | | APRIL | 20 9 18 | 20 17 45 |
| | MAY . | 23 6 52 | 23 6 59 | | MAY . | 19 22 2 | 20 7 40 |
| | JUNE . | 21 19 36 | 21 13 44 | | JUNE . | 18 10 46 | 18 19 27 |
| | JULY . | 21 8 20 | 20 21 31 | | ○ | { 8 5 8 | 2 17 11 |
| | AUG. . | 19 21 4 | 19 7 24 | | JULY . | { 17 23 30 | 18 5 30 |
| | ○ | { 3 15 26 | 3 20 58 | | AUG. . | 16 12 14 | 16 14 37 |
| | SEPT. . | { 18 9 48 | 17 20 9 | | SEPT. . | 15 0 58 | 14 23 39 |
| | OCT. . | 17 22 32 | 17 11 58 | | OCT. . | 14 13 42 | 14 9 19 |
| | NOV. . | 16 11 16 | 16 6 19 | | NOV. . | 13 2 26 | 12 20 1 |
| | DEC. . | 16 0 0 | 16 1 52 | | DEC. . | { 12 15 10 | 12 7 52 |
| | | | | | ○ | { 27 9 32 | 27 20 59 |
| 133. A.G. 23 22 15 | JAN. . | 14 12 45 | 14 20 57 | 130. D. 24 15 41 | JAN. . | 11 3 54 | 10 20 57 |
| | FEB. . | 13 1 29 | 13 14 1 | | FEB. . | 9 16 38 | 9 11 11 |
| | MAR. . | 13 14 13 | 14 4 8 | | MAR. . | 11 5 22 | 11 2 25 |
| | APRIL | 12 2 57 | 12 15 13 | | APRIL | 9 18 6 | 9 18 16 |
| | MAY . | 11 15 41 | 11 23 51 | | MAY . | 9 6 50 | 9 10 2 |
| | JUNE . | 10 4 25 | 10 7 1 | | JUNE . | { 7 19 34 | 8 1 3 |
| | JULY . | 9 17 9 | 9 13 49 | | ○ | { 22 18 56 | 22 5 41 |
| | AUG. . | 8 5 53 | 7 21 21 | | JULY . | 7 8 18 | 7 14 49 |
| | SEPT. . | 6 18 37 | 6 6 35 | | AUG. . | 5 21 2 | 6 3 9 |
| | OCT. . | 6 7 21 | 5 18 14 | | SEPT. . | 4 9 46 | 4 14 24 |
| | NOV. . | 4 20 5 | 4 8 41 | | OCT. . | 3 22 30 | 4 1 7 |
| | DEC. . | 4 8 49 | 4 1 39 | | NOV. . | 2 11 14 | 2 11 45 |
| 132. F. 24 4 4 | JAN. . | { 2 21 33 | 2 20 16 | 129. C.B. 23 21 30 | DEC. . | { 1 23 58 | 1 22 32 |
| | ○ | { 17 15 55 | 17 20 11 | | | { 31 12 42 | 31 9 31 |
| | FEB. . | 1 10 17 | 1 15 5 | | JAN. . | 30 1 27 | 29 20 49 |
| | MAR. . | 2 23 1 | 3 8 42 | | FEB. . | 28 14 11 | 28 8 37 |
| | APRIL | 1 11 45 | 1 23 58 | | MAR. . | 29 2 53 | 28 21 17 |
| | MAY . | { 1 0 29 | 1 12 26 | | APRIL | 27 13 39 | 27 11 3 |
| | JUNE . | { 30 13 13 | 30 22 24 | | ○ | { 12 10 1 | 12 15 46 |
| | ○ | { 13 20 19 | 13 11 58 | | MAY . | { 27 4 23 | 27 1 53 |
| | JULY . | { 23 14 41 | 23 14 14 | | JUNE . | 25 17 7 | 25 17 17 |
| | AUG. . | 27 8 25 | 26 22 12 | | JULY . | 25 5 51 | 25 8 39 |
| | SEPT. . | 25 16 9 | 25 7 24 | | AUG. . | 23 18 35 | 23 23 24 |
| | OCT. . | 25 4 53 | 24 18 22 | | SEPT. . | 22 7 19 | 22 13 12 |
| | NOV. . | 23 17 37 | 23 7 24 | | OCT. . | 21 20 3 | 22 2 4 |
| | DEC. . | 23 6 21 | 22 22 28 | | ○ | { 5 14 23 | 5 4 19 |
| | | | | | NOV. . | { 20 8 47 | 20 14 4 |
| | | | | | DEC. . | 19 21 31 | 20 1 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 128. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 125. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 18 10 15 | 18 11 43 | E.D. March. | JAN. . | 16 1 26 | 16 13 42 |
| <i>d. h. m.</i> | FEB. . | 16 23 0 | 16 21 33 | <i>d. h. m.</i> | FEB. . | { 14 14 10 | 15 4 1 |
| 24 3 19 | MAR. . | 18 11 44 | 18 7 21 | ○ | ○ | { 29 8 32 | 29 3 3 |
| | APRIL | 17 0 28 | 16 17 35 | 23 20 45 | MAR. . | 15 2 54 | 15 15 21 |
| | ○ | { 1 18 50 | 2 6 24 | | APRIL | 13 15 38 | 14 0 11 |
| | MAY . | { 16 13 12 | 16 5 4 | | MAY . | 13 4 22 | 13 7 23 |
| | JUNE . | 15 1 56 | 14 18 17 | | JUNE . | 11 17 6 | 11 14 0 |
| | JULY . | 14 14 40 | 14 9 16 | | JULY . | 11 5 50 | 10 21 10 |
| | AUG. . | 13 3 24 | 13 1 33 | | AUG. . | { 9 18 34 | 9 5 58 |
| | SEPT. . | 11 16 8 | 11 18 18 | | ○ | { 24 12 56 | 24 18 35 |
| | OCT. . | { 11 4 52 | 11 10 40 | | SEPT. . | 8 7 18 | 7 17 18 |
| | ○ | { 25 23 14 | 25 11 23 | | OCT. . | 7 20 2 | 7 7 89 |
| | NOV. . | 9 17 36 | 10 1 54 | | NOV. . | 6 8 46 | 6 0 54 |
| | DEC. . | 9 6 20 | 9 15 33 | | DEC. . | 5 21 30 | 5 20 3 |
| 127. | JAN. . | 7 19 4 | 8 3 30 | 124. | JAN. . | 4 10 14 | 4 15 30 |
| G. | FEB. . | 6 7 48 | 6 13 49 | C. | FEB. . | { 2 22 58 | 3 9 39 |
| 24 9 8 | MAR. . | 7 20 32 | 7 22 47 | 24 2 34 | ○ | { 17 17 20 | 17 13 49 |
| | APRIL | { 6 9 16 | 6 7 1 | | MAR. . | 4 11 42 | 5 1 13 |
| | ○ | { 21 3 33 | 21 14 20 | | APRIL | 3 0 26 | 3 13 44 |
| | MAY . | 5 22 0 | 5 15 20 | | MAY . | 2 13 10 | 2 23 28 |
| | JUNE . | 4 10 44 | 4 0 43 | | JUNE . | { 1 1 54 | 1 7 13 |
| | JULY . | 3 23 28 | 3 12 9 | | ○ | { 30 14 38 | 30 14 8 |
| | AUG. . | 2 12 12 | { 2 2 4 | | JULY . | 30 3 22 | 29 21 17 |
| | SEPT. . | { 1 0 56 | { 31 18 22 | | ○ | { 13 21 44 | 13 22 55 |
| | ○ | { 30 13 40 | 30 12 19 | | AUG. . | { 28 16 6 | 28 5 42 |
| | OCT. . | { 15 8 2 | 15 0 59 | | SEPT. . | 27 4 50 | 26 16 11 |
| | NOV. . | 28 15 8 | 29 0 6 | | OCT. . | 26 17 34 | 26 5 16 |
| | DEC. . | 28 3 52 | 28 15 36 | | NOV. . | 25 6 18 | 24 21 1 |
| 126. | JAN. . | 26 16 37 | 27 4 38 | 123. | JAN. . | 23 7 47 | 23 9 35 |
| F. | FEB. . | 25 5 21 | 25 15 12 | B. | ○ | { 7 2 9 | 7 5 22 |
| 24 14 57 | MAR. . | 26 18 5 | 26 23 48 | 24 8 23 | FEB. . | { 21 20 31 | 22 3 48 |
| | APRIL | 25 6 49 | 25 7 10 | | MAR. . | 23 9 15 | 23 20 14 |
| | MAY . | 24 19 33 | 24 14 17 | | APRIL | 21 21 59 | 22 10 4 |
| | JUNE . | 23 8 17 | 22 22 11 | | MAY . | 21 10 43 | 21 21 13 |
| | JULY . | 22 21 1 | 22 8 0 | | JUNE . | 19 23 27 | 20 6 18 |
| | AUG. . | 21 9 45 | 20 20 35 | | JULY . | 19 12 11 | 19 14 14 |
| | SEPT. . | 19 22 29 | 19 12 9 | | ○ | { 3 6 33 | 2 23 9 |
| | OCT. . | 19 11 13 | 19 6 14 | | AUG. . | { 18 0 55 | 17 22 7 |
| | NOV. . | 17 23 57 | 18 1 34 | | SEPT. . | 16 13 39 | 16 6 48 |
| | DEC. . | 17 12 41 | 17 20 34 | | OCT. . | 16 2 23 | 15 16 56 |
| | | | | | NOV. . | 14 15 7 | 14 4 57 |
| | | | | | DEC. . | 14 8 51 | 13 18 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. 122. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 119. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 12 16 35 | 12 10 42 | March. | JAN. . | 9 7 45 | 9 10 59 |
| <i>d. h. m.</i> | FEB. . | 11 5 19 | 11 3 37 | <i>d. h. m.</i> | FEB. . | 7 20 29 | 7 20 58 |
| 24 14 12 | MAR. . | 12 18 3 | 12 20 51 | 24 7 38 | MAR. . | 9 9 13 | 9 6 27 |
| | APRIL . | 11 6 47 | 11 13 22 | | APRIL . | 7 21 57 | 7 16 5 |
| | MAY . | 10 19 31 | 11 4 18 | | MAY . | 7 10 41 | 7 2 37 |
| | JUNE . | 9 8 15 | 9 17 13 | | JUNE . | 5 23 25 | 5 14 46 |
| | JULY . | 8 20 59 | 9 4 14 | | JULY . | 5 12 9 | 5 4 52 |
| | AUG. . | 7 9 43 | 7 13 53 | | AUG. . | 4 0 53 | 3 20 39 |
| | SEPT. . | 5 22 27 | 5 23 9 | | SEPT. . | 2 18 37 | 2 13 31 |
| | OCT. . | 5 11 11 | 5 8 41 | | OCT. . | { 2 2 21 | 2 6 26 |
| | NOV. . | 3 28 55 | 3 18 57 | | | { 31 15 5 | 31 22 34 |
| | DEC. . | { 3 12 39 | 3 6 13 | | NOV. . | 80 3 49 | 80 13 15 |
| | ○ | { 18 7 1 | 18 6 54 | | DEC. . | 29 16 33 | 30 2 6 |
| 121. | JAN. . | { 2 1 24 | 1 18 33 | 118. | JAN. . | 28 5 18 | 28 13 9 |
| G.F. | FEB. . | { 31 14 8 | 31 7 59 | C. | FEB. . | 26 18 2 | 26 22 35 |
| 23 20 1 | MAR. . | { 1 2 52 | ... | 24 13 27 | MAR. . | 28 6 46 | 28 6 53 |
| | APRIL . | { 30 15 36 | 30 13 46 | | ○ | { 12 1 8 | 12 10 31 |
| | MAY . | { 29 4 20 | 29 5 29 | | APRIL . | { 26 19 30 | 26 14 50 |
| | JUNE . | { 28 17 4 | 28 20 56 | | MAY . | 26 8 14 | 25 23 24 |
| | JULY . | { 12 11 26 | 12 5 40 | | JUNE . | 24 20 58 | 24 9 37 |
| | AUG. . | { 27 5 48 | 27 11 27 | | JULY . | 24 9 42 | 23 22 15 |
| | SEPT. . | 26 18 32 | 27 0 42 | | AUG. . | 22 22 26 | 22 13 29 |
| | OCT. . | 25 7 16 | 25 12 44 | | SEPT. . | 21 11 10 | 21 6 54 |
| | NOV. . | 28 20 0 | 28 23 57 | | ○ | { 6 5 32 | 6 0 14 |
| | DEC. . | { 28 8 44 | 28 10 48 | | OCT. . | { 20 23 54 | 21 1 25 |
| | | { 21 21 28 | 21 21 35 | | NOV. . | 19 12 38 | 19 19 39 |
| | | { 6 15 50 | 6 17 41 | | DEC. . | 19 1 22 | 19 12 20 |
| | | { 21 10 12 | 21 8 27 | | | | |
| 120. | JAN. . | 19 22 57 | 19 19 26 | 117. | JAN. . | 17 14 7 | 18 2 39 |
| K. | FEB. . | 13 11 41 | 13 6 41 | B.A. | FEB. . | 16 2 51 | 16 14 20 |
| 24 1 50 | MAR. . | 20 0 25 | 19 18 34 | 23 19 16 | MAR. . | { 16 15 35 | 16 23 42 |
| | APRIL . | 18 18 9 | 18 7 29 | | ○ | { 31 9 57 | 31 11 5 |
| | MAY . | 18 1 53 | 17 21 33 | | APRIL . | 15 4 19 | 15 7 27 |
| | JUNE . | { 1 20 15 | 1 22 56 | | MAY . | 14 17 3 | 14 14 21 |
| | JULY . | { 16 14 37 | 16 12 46 | | JUNE . | 13 5 47 | 12 21 42 |
| | AUG. . | 16 8 21 | 16 4 20 | | JULY . | 12 18 31 | 12 6 26 |
| | SEPT. . | 14 16 5 | 14 19 42 | | AUG. . | 11 7 15 | 10 17 35 |
| | OCT. . | 13 4 49 | 13 10 17 | | SEPT. . | { 9 19 59 | 9 7 44 |
| | NOV. . | 12 17 33 | 12 28 56 | | ○ | { 24 14 21 | 24 16 14 |
| | DEC. . | { 11 6 17 | 11 12 33 | | OCT. . | 9 8 43 | 9 0 46 |
| | | { 26 0 39 | 25 17 16 | | NOV. . | 7 21 27 | 7 19 43 |
| | | { 10 19 1 | 11 0 13 | | DEC. . | 7 10 11 | 7 15 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 116. G. March. d. h. m. 24 1 5 | JAN. . | d. h. m. 5 22 55 | d. h. m. 6 9 28 | B.C. 113. D.C. March. d. h. m. 23 18 31 | JAN. . | d. h. m. { 3 14 5 | d. h. m. 3 6 46 |
| | FEB. . | 4 11 39 | 5 1 14 | | ○ | { 18 8 27 | 18 19 46 |
| | MAR. . | { 6 0 23 | 6 13 57 | | FEB. . | 2 2 49 | 1 22 56 |
| | ○ | { 20 18 45 | 20 13 35 | | MAR. . | 2 15 33 | 2 15 53 |
| | APRIL | 4 13 7 | 4 23 51 | | APRIL | { 1 4 17 | 1 8 40 |
| | MAY . | 4 1 51 | 4 7 41 | | | { 30 17 1 | { 1 0 23 |
| | JUNE . | 2 14 35 | 2 14 24 | | MAY . | 30 5 45 | { 30 14 28 |
| | JULY . | { 2 3 19 | 1 21 11 | | JUNE . | 28 18 29 | 29 2 26 |
| | AUG. . | { 31 16 3 | 31 5 5 | | ○ | { 13 12 51 | 13 0 16 |
| | ○ | { 13 23 9 | 14 4 50 | | JULY . | { 28 7 13 | 28 12 56 |
| | SEPT. . | { 28 17 31 | 28 4 2 | | AUG. . | 26 19 57 | 26 22 33 |
| | OCT. . | 28 6 15 | 27 19 57 | | SEPT. . | 25 8 41 | 25 8 4 |
| | NOV. . | 26 18 59 | 26 14 19 | | OCT. . | 24 21 25 | 24 18 6 |
| | DEC. . | 26 7 43 | 26 9 47 | | NOV. . | 23 10 9 | 23 4 55 |
| | | | | | DEC. . | 22 22 53 | 22 16 33 |
| 115. F. 24 6 54 | JAN. . | 24 20 28 | 25 4 42 | 112. B. 24 0 20 | ○ | { 6 17 16 | 7 5 15 |
| | FEB. . | 23 9 12 | 23 21 36 | | JAN. . | { 21 11 33 | 21 5 18 |
| | MAR. . | 24 21 56 | 25 11 34 | | FEB. . | 20 0 22 | 19 18 53 |
| | APRIL | 23 10 40 | 23 22 31 | | MAR. . | 21 13 6 | 21 9 35 |
| | MAY . | 22 23 24 | 23 7 11 | | APRIL | 20 1 50 | 20 0 57 |
| | JUNE . | 21 12 8 | 21 14 26 | | MAY . | 19 14 34 | 19 16 32 |
| | JULY . | 21 0 52 | 20 21 26 | | JUNE . | 18 3 18 | 18 7 37 |
| | AUG. . | 19 13 36 | 19 5 15 | | ○ | { 2 21 40 | 2 13 5 |
| | SEPT. . | 18 2 20 | 17 14 44 | | JULY . | { 17 16 2 | 17 21 43 |
| | OCT. . | 17 15 4 | 17 2 34 | | AUG. . | 16 4 46 | 16 10 35 |
| | NOV. . | 16 3 48 | 15 17 1 | | SEPT. . | 14 17 30 | 14 22 27 |
| | DEC. . | 15 16 32 | 15 9 48 | | OCT. . | 14 6 14 | 14 9 41 |
| 114. E. 24 12 43 | JAN. . | { 14 5 17 | 14 4 5 | 111. A. 24 6 9 | NOV. . | 12 18 58 | 12 20 33 |
| | ○ | { 28 23 39 | 29 4 49 | | DEC. . | 12 7 42 | 12 7 30 |
| | FEB. . | 12 18 1 | 12 22 34 | | JAN. . | 10 20 26 | 10 18 18 |
| | MAR. . | 14 6 45 | 14 15 52 | | FEB. . | 9 9 11 | 9 5 9 |
| | APRIL | 12 19 29 | 13 6 59 | | MAR. . | 10 21 55 | 10 16 22 |
| | MAY . | 12 8 13 | 12 19 27 | | APRIL | 9 10 39 | 9 4 27 |
| | JUNE . | 10 20 57 | 11 5 34 | | MAY . | { 8 23 23 | 8 17 45 |
| | JULY . | { 10 9 41 | 10 14 4 | | ○ | { 23 17 45 | 23 23 13 |
| | ○ | { 25 4 3 | 24 18 46 | | JUNE . | 7 12 7 | 7 8 20 |
| | AUG. . | 8 22 25 | 8 22 3 | | JULY . | 7 0 51 | 6 23 43 |
| | SEPT. . | 7 11 9 | 7 6 25 | | AUG. . | 5 13 35 | 5 15 32 |
| | OCT. . | 6 23 53 | 6 15 55 | | SEPT. . | 4 2 19 | 4 6 51 |
| | NOV. . | 5 12 37 | 5 3 3 | | OCT. . | 3 15 3 | 3 21 18 |
| | DEC. . | 5 1 21 | 4 16 1 | | NOV. . | { 2 3 47 | 2 10 40 |
| | | | | | ○ | { 16 22 9 | 16 12 31 |
| | | | | | DEC. . | { 1 16 31 | 1 22 57 |
| | | | | | | { 31 5 15 | 31 10 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|--------|------------------------------------|------------------------------------|---|--------|------------------------------------|------------------------------------|
| B.C. 110. G. March. d. h. m. 24 11 58 | | d. h. m. | d. h. m. | B.C. 107. C. March. d. h. m. 24 5 24 | | d. h. m. | d. h. m. |
| | JAN. . | 29 17 59 | 29 20 22 | | JAN. . | 26 9 9 | 26 21 42 |
| | FEB. . | 28 6 43 | 28 5 50 | | FEB. . | 24 21 53 | 25 11 54 |
| | MAR.. | 29 19 27 | 29 15 3 | | ○ | { 11 16 15 | 11 10 37 |
| | APRIL | 28 8 11 | 28 0 47 | | MAR.. | { 26 10 37 | 26 23 4 |
| | ○ | { 13 2 33 | 13 13 33 | | APRIL | 24 23 21 | 25 7 43 |
| | MAY . | { 27 20 55 | 27 11 52 | | MAY . | 24 12 5 | 24 14 49 |
| | JUNE . | 26 9 39 | 26 0 54 | | JUNE . | 23 0 49 | 22 21 28 |
| | JULY . | 25 22 23 | 25 15 57 | | JULY . | 22 13 33 | 22 4 44 |
| | AUG. . | 24 11 7 | 24 8 32 | | AUG. . | 21 2 17 | 20 13 41 |
| | SEPT.. | 22 23 51 | 23 1 43 | | ○ | { 4 20 39 | 5 2 10 |
| | OCT. . | 22 12 35 | 22 18 42 | | SEPT.. | { 19 15 1 | 19 1 12 |
| | ○ | { 6 6 57 | 5 19 53 | | OCT. . | 19 3 45 | 18 15 41 |
| | NOV. . | { 21 1 19 | 21 10 23 | | NOV. . | 17 16 29 | 17 8 56 |
| | DEC. . | 20 14 8 | 21 0 16 | | DEC. . | 17 5 13 | 17 3 59 |
| 109. F.E. 23 17 47 | JAN. . | 19 2 43 | 19 12 11 | 106. B. 24 11 13 | JAN. . | 15 17 58 | 15 23 19 |
| | FEB. . | 17 15 32 | 17 22 15 | | FEB. . | 14 6 42 | { 14 17 15 |
| | MAR.. | 18 4 16 | 18 6 50 | | ○ | { 1 1 4 | 23 21 58 |
| | APRIL | 16 17 0 | 16 14 39 | | MAR.. | { 15 19 26 | 16 8 39 |
| | ○ | { 1 11 22 | 1 21 7 | | APRIL | 14 8 10 | 14 21 3 |
| | MAY . | { 16 5 44 | 15 22 36 | | MAY . | 13 20 54 | 14 6 45 |
| | JUNE . | 14 18 28 | 14 7 47 | | JUNE . | 12 9 38 | 12 14 36 |
| | JULY . | 14 7 12 | 13 19 5 | | JULY . | 11 22 22 | 11 21 42 |
| | AUG. . | 12 19 56 | 12 9 4 | | AUG. . | { 10 11 6 | 10 5 6 |
| | SEPT.. | 11 8 40 | 11 1 33 | | ○ | { 25 5 23 | 25 5 59 |
| | OCT. . | { 10 21 24 | 10 19 56 | | SEPT.. | 8 23 50 | 8 13 49 |
| | ○ | { 25 15 46 | 25 9 43 | | OCT. . | 8 12 34 | 8 0 32 |
| | NOV. . | 9 10 8 | 9 14 40 | | NOV. . | 7 1 18 | 6 13 42 |
| | DEC. . | 8 22 52 | 9 8 25 | | DEC. . | 6 14 2 | 6 5 19 |
| 108. D. 23 23 36 | JAN. . | 7 11 37 | 8 0 1 | 105. A.G. 23 17 2 | JAN. . | 5 2 46 | 4 22 49 |
| | FEB. . | 6 0 21 | 6 12 53 | | FEB. . | { 3 15 30 | 3 17 9 |
| | MAR.. | 7 13 5 | 7 28 19 | | ○ | { 18 9 52 | 18 13 47 |
| | APRIL | 6 1 49 | 6 7 37 | | MAR.. | 4 4 14 | 4 11 1 |
| | MAY . | 5 14 33 | 5 14 42 | | APRIL | 2 16 58 | 3 8 12 |
| | JUNE . | 4 8 17 | 3 21 39 | | MAY . | { 2 5 42 | 2 16 59 |
| | JULY . | 3 16 1 | 3 5 30 | | | { 31 18 26 | { 1 4 16 |
| | AUG. . | { 2 4 45 | 1 15 21 | | JUNE . | 30 7 10 | { 30 13 36 |
| | | { 31 17 29 | 31 4 1 | | JULY . | 29 19 54 | 29 21 54 |
| | SEPT.. | 30 6 18 | 29 19 47 | | ○ | { 18 14 16 | 18 6 8 |
| | OCT. . | 29 18 57 | 29 14 8 | | AUG. . | { 28 8 38 | 28 6 10 |
| | NOV. . | 28 7 41 | 28 9 33 | | SEPT.. | 26 21 22 | 26 15 13 |
| | DEC. . | 27 20 25 | 28 4 37 | | OCT. . | 26 10 6 | 26 1 36 |
| | | | | | NOV. . | 24 22 50 | 24 13 39 |
| | | | | | DEC. . | 24 11 34 | 24 3 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 104. F. March. <i>d. h. m.</i> 23 22 51 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 101. C.B. March. <i>d. h. m.</i> 23 16 17 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23. 0 19 | 22 18 43 | | JAN. . | 20. 15 29 | 20 19 45 |
| | FEB. . | 21. 13 3 | 21 11 5 | | FEB. . | 19. 4 13 | 19 5 22 |
| | MAR. . | 23 1 47 | 23 3 49 | | MAR. . | 19. 16 57 | 19 14 23 |
| | APRIL | 21. 14 31 | 21 20 3 | | APRIL | 18 5 41 | 17 23 30 |
| | MAY . | 21 3 15 | 21 10 57 | | MAY . | 17 18 25 | 17 9 37 |
| | JUNE . | 19. 15 59 | 20 0 4 | | JUNE . | 16. 7 9 | 15 21 29 |
| | JULY . | 19 4 43 | 19 11 28 | | JULY . | 15. 19 53 | 15 11 32 |
| | AUG. . | 17. 17 27 | 17 21 40 | | AUG. . | 14 8 37 | 14 3 33 |
| | SEPT. . | 16. 6 11 | 16 7 25 | | SEPT. . | 12 21 21 | 12 20 48 |
| | OCT. . | 15 18 55 | 15 17 20 | | OCT. . | 12. 10 5 | 12 14 17 |
| | NOV. . | 14. 7 39 | 14 3 51 | | NOV. . | 10 22 49 | 11 6 55 |
| | DEC. . | 13 20 23 | 13 15 6 | | DEC. . | 10 11 33 | 10 21 52 |
| | ○ | 23 14 45 | 29 1 7 | | | | |
| 103. E. 24 4 40 | JAN. . | 12 9 8 | 12 3 8 | 100. A. 23 22 6 | JAN. . | 9 0 18 | 9 10 49 |
| | FEB. . | 10. 21 52 | 10 16 0 | | FEB. . | 7 13 2 | 7 21 40 |
| | MAR. . | 12. 10 36 | 12 5 51 | | MAR. . | 9. 1 46 | 9 6 44 |
| | APRIL | 10 23 20 | 10 20 38 | | APRIL | 7 14 30 | 7 14 39 |
| | MAY . | 10. 12 4 | 10 12 1 | | ○ | 22 8 52 | 22 17 16 |
| | JUNE . | 9 0 48 | 9 3 24 | | MAY . | 7 3 14 | 6 22 15 |
| | ○ | 23 19 10 | 23 13 6 | | JUNE . | 5 15 58 | 5 6 33 |
| | JULY . | 8. 13 32 | 8 13 10 | | JULY . | 5 4 42 | 4 16 37 |
| | AUG. . | 7. 2 16 | 7 7 54 | | AUG. . | 3 17 26 | 3 5 16 |
| | SEPT. . | 5 15 0 | 5 20 32 | | SEPT. . | 2 6 10 | 1 20 41 |
| | OCT. . | 5 3 44 | 5 8 19 | | ○ | 1 18 54 | 1 14 25 |
| | NOV. . | 3. 16 23 | 3 19 35 | | OCT. ○ | 16 13 16 | 16 8 55 |
| | DEC. . | 3 5 12 | 3 6 35 | | | 31 7 38 | 31 9 17 |
| | ○ | 17 23 34 | 18 1 40 | | NOV. . | 29 20 22 | 30 3 50 |
| 102. D. 24 10 29 | JAN. . | 1 17 56 | 1 17 20 | 99. G. 24 3 55 | JAN. . | 27 21 50 | 28 10 58 |
| | FEB. . | 31 6 40 | 31 3 57 | | FEB. . | 26. 10 34 | 26 22 29 |
| | MAR. . | 1 19 24 | 1 14 40 | | MAR. . | 27. 23 18 | 28 7 31 |
| | APRIL | 31 8 8 | 31 1 57 | | ○ | 11. 17 40 | 11 17 50 |
| | MAY . | 29 20 52 | 29 14 21 | | APRIL | 26 12 2 | 26 15 2 |
| | ○ | 29 9 36 | 29 4 9 | | MAY . | 26 0 46 | 25 21 51 |
| | JUNE . | 13 3 53 | 13 6 20 | | JUNE . | 24 13 30 | 24 5 3 |
| | JULY . | 27. 22 20 | 27 19 14 | | JULY . | 24. 2 14 | 23 13 47 |
| | AUG. . | 27 11 4 | 27 11 3 | | AUG. . | 22 14 58 | 22 1 3 |
| | SEPT. . | 25 23 48 | 26 2 52 | | SEPT. . | 21 3 42 | 20 15 21 |
| | OCT. . | 24 12 32 | 24 18 6 | | ○ | 5 22 4 | 6 0 43 |
| | NOV. . | 24. 1 16 | 24 8 18 | | OCT. . | 20 16 26 | 20 8 33 |
| | ○ | 22. 14 0 | 22 21 19 | | NOV. . | 19 5 10 | 19 3 42 |
| | DEC. . | 7 8 22 | 7 1 24 | | DEC. . | 18 17 54 | 18 23 14 |
| | | 22 2 44 | 22 9 7 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 98. F. March. d. h. m. 24 9 44 | | d. h. m. | d. h. m. | B.C. 95. B. March. d. h. m. 24 3 10 | | d. h. m. | d. h. m. |
| | JAN. . | 17. 6 39 | 17 17 28 | | JAN. . | { 13 21 49 | 13 15 1 |
| | FEB. . | 15 19 23 | 16 9 7 | | ○ | { 28 16 11 | 29 4 14 |
| | MAR. . | 17 8 7 | { 17 21 42 | | FEB. . | 12 10 33 | 12 6 38 |
| | ○ | { 1 2 29 | { 31 20 49 | | MAR. . | 13 23 17 | 13 22 59 |
| | APRIL | { 15 20 51 | 16 7 26 | | APRIL | 12 12 1 | 12 15 24 |
| | MAY . | 15. 9 35 | 15 15 7 | | MAY . | 12 0 45 | 12 6 59 |
| | JUNE . | 13 22 19 | 13 21 52 | | JUNE . | 10 13 29 | 10 21 5 |
| | JULY . | 13 11 3 | 13 4 44 | | JULY . | { 10 2 13 | 10 9 29 |
| | AUG. . | 11 23 47 | 11 12 49 | | ○ | { 24 20 35 | 24 7 29 |
| | SEPT. . | { 10 12 31 | 9 23 3 | | AUG. . | 8 14 57 | 8 20 27 |
| | ○ | { 25 6 53 | 25 12 50 | | SEPT. . | 7 3 41 | 7 6 36 |
| | OCT. . | 10. 1 15 | 9 12 6 | | OCT. . | 6 16 25 | 6 16 36 |
| | NOV. . | 8 13 59 | 8 4 4 | | NOV. . | 5 5 9 | 5 2 57 |
| | DEC. . | 8 2 43 | 7 22 20 | | DEC. . | 4 17 53 | 4 13 51 |
| 97. E.D. 23 15 33 | JAN. . | 6 15 28 | 6 17 33 | 94. A. 24 8 59 | JAN. . | { 3 6 37 | 3 1 22 |
| | FEB. . | 5 4 12 | 5 12 20 | | ○ | { 18 0 59 | 18 13 22 |
| | MAR. . | 5 16 56 | 6 5 1 | | FEB. . | 1 19 21 | 1 13 33 |
| | APRIL | 4 5 40 | 4 18 52 | | MAR. . | 3 8 5 | 3 2 37 |
| | MAY . | 3 18 24 | 4 5 49 | | APRIL | 1 20 49 | 1 16 39 |
| | JUNE . | 2 7 8 | 2 14 30 | | MAY . | { 1 9 33 | 1 7 34 |
| | JULY . | { 1 19 52 | 1 21 55 | | ○ | { 80 22 17 | 30 22 57 |
| | ○ | { 31 8 36 | 31 5 12 | | JUNE . | 29 11 1 | 29 14 10 |
| | AUG. . | 29 21 20 | 29 13 18 | | ○ | { 14 5 23 | 13 20 33 |
| | SEPT. . | 28 10 4 | 27 23 3 | | JULY . | { 28 23 45 | 29 4 39 |
| | OCT. . | 27 22 48 | 27 11 2 | | AUG. . | 27 12 29 | 27 13 7 |
| | NOV. . | 26 11 32 | 26 1 26 | | SEPT. . | 26 1 13 | 26 6 35 |
| | DEC. . | 26 0 16 | 25 17 58 | | OCT. . | 25 13 57 | 25 13 19 |
| 96. C. 23 21 22 | JAN. . | 24 13 0 | 24 11 50 | 93. G.F. 23 14 48 | JAN. . | 22 4 10 | 22 2 59 |
| | ○ | { 8 7 22 | 8 13 21 | | FEB. . | 20 16 54 | 20 13 22 |
| | FEB. . | { 23 1 44 | 23 5 54 | | MAR. . | 21 5 38 | 21 0 1 |
| | MAR. . | 24 14 28 | 24 22 52 | | APRIL | 19 18 22 | 19 11 31 |
| | APRIL | 23 3 12 | 23 13 51 | | MAY . | 19 7 6 | 19 0 25 |
| | MAY . | 22 15 56 | 23 2 24 | | ○ | { 3 1 23 | 3 6 39 |
| | JUNE . | 21 4 40 | 21 12 42 | | JUNE . | { 17 19 50 | 17 14 49 |
| | JULY . | 20 17 24 | 20 21 35 | | JULY . | 17 8 34 | 17 6 24 |
| | ○ | { 4 11 46 | 4 1 37 | | AUG. . | 15 21 18 | 15 22 31 |
| | AUG. . | { 19 6 8 | 19 5 58 | | SEPT. . | 14 10 2 | 14 14 25 |
| | SEPT. . | 17 18 52 | 17 14 44 | | OCT. . | 13 22 46 | 14 5 26 |
| | OCT. . | 17 7 36 | 17 0 33 | | NOV. . | { 12 11 30 | 12 19 18 |
| | NOV. . | 15 20 20 | 15 11 49 | | ○ | { 27 5 52 | 26 20 45 |
| | DEC. . | 15 9 4 | 15 0 39 | | DEC. . | 12 0 14 | 12 7 48 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|-----------|------------------------------------|------------------------------------|
| B.C. 92. E. March. <i>d. h. m.</i> 23 20 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 89. B.A. March. <i>d. h. m.</i> 23 14 3 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 12 59 | 10 18 59 | | JAN. . | 8 4 9 | 8 12 35 |
| | FEB. . | 9 1 43 | 9 4 55 | | FEB. . | 6 16 53 | 7 5 35 |
| | MAR. . | 10 14 27 | 10 13 56 | | MAR. . | { 7 5 37 | 7 19 38 |
| | APRIL | 9 3 11 | 8 22 39 | | ○ | { 21 23 59 | 21 18 6 |
| | MAY . | { 8 15 55 | 8 7 56 | | APRIL | 5 18 21 | 6 6 38 |
| | ○ | { 23 10 17 | 23 20 39 | | MAY . | 5 7 5 | 5 15 12 |
| | JUNE . | 7 4 39 | 6 18 43 | | JUNE . | 3 19 49 | 3 22 16 |
| | JULY . | 6 17 23 | 6 7 36 | | JULY . | 3 8 33 | 3 4 59 |
| | AUG. . | 5 6 7 | 4 22 45 | | AUG. . | { 1 21 17 | 1 12 26 |
| | SEPT. . | 3 18 51 | 3 15 40 | | { 81 10 1 | 80 21 35 | |
| | OCT. . | 3 7 35 | 3 9 25 | | ○ | { 15 4 23 | 15 9 55 |
| | NOV. . | { 1 20 19 | 2 2 49 | | SEPT. . | { 29 22 45 | 29 9 16 |
| | ○ | { 16 14 41 | 16 4 37 | | OCT. . | 29 11 29 | 28 23 51 |
| | DEC. . | { 1 9 3 | 1 18 53 | | NOV. . | 28 0 13 | 27 17 4 |
| | | { 30 21 47 | 31 8 55 | | DEC. . | 27 12 57 | 27 11 56 |
| 91. D. 24 2 26 | JAN. . | 29 10 31 | 29 20 44 | 88. G. 23 19 52 | JAN. . | 26 1 41 | 26 6 58 |
| | FEB. . | 27 23 15 | 28 6 30 | | FEB. . | 24 14 25 | 25 0 42 |
| | MAR. . | 29 11 59 | 29 14 42 | | ○ | { 11 8 47 | 11 5 57 |
| | APRIL | 28 0 43 | 27 22 11 | | MAR. . | { 26 8 9 | 26 15 55 |
| | ○ | { 12 19 5 | 13 3 43 | | APRIL | 24 15 58 | 25 4 14 |
| | MAY . | { 27 13 27 | 27 5 53 | | MAY . | 21 4 37 | 24 18 58 |
| | JUNE . | 26 2 11 | 25 14 52 | | JUNE . | 22 17 21 | 22 21 58 |
| | JULY . | 25 14 55 | 25 2 8 | | JULY . | 22 6 5 | 22 5 20 |
| | AUG. . | 24 3 39 | 23 16 14 | | AUG. . | 20 18 49 | 20 13 3 |
| | SEPT. . | 22 16 23 | 22 9 2 | | ○ | { 4 18 11 | 4 18 10 |
| | OCT. . | 22 5 7 | 22 3 39 | | SEPT. . | { 19 7 33 | 18 22 5 |
| | ○ | { 5 23 29 | 5 18 33 | | OCT. . | 18 20 17 | 18 9 0 |
| | NOV. . | { 20 17 51 | 20 22 43 | | NOV. . | 17 9 1 | 16 22 12 |
| | DEC. . | 20 6 35 | 20 16 39 | | DEC. . | 16 21 45 | 16 13 37 |
| 90. C. 24 8 15 | JAN. . | 18 19 20 | 19 8 20 | 87. F. 24 1 41 | JAN. . | 15 10 30 | 15 6 45 |
| | FEB. . | 17 8 4 | 17 21 8 | | FEB. . | { 13 28 14 | 14 0 37 |
| | MAR. . | 18 20 43 | 19 7 15 | | ○ | { 28 17 36 | 28 22 4 |
| | APRIL | 17 9 32 | 17 15 17 | | MAR. . | 15 11 58 | 15 13 7 |
| | MAY . | 16 22 16 | 16 22 12 | | APRIL | 14 0 42 | 14 10 4 |
| | JUNE . | 15 11 0 | 15 5 1 | | MAY . | 13 13 26 | 13 23 50 |
| | JULY . | 14 23 44 | 14 12 52 | | JUNE . | 12 2 10 | 12 11 13 |
| | AUG. . | 13 12 28 | 12 22 49 | | JULY . | 11 14 54 | 11 20 53 |
| | SEPT. . | 12 1 12 | 11 11 33 | | AUG. . | { 10 3 33 | 10 5 40 |
| | OCT. . | 11 13 56 | 11 3 32 | | ○ | { 24 22 0 | 24 13 7 |
| | NOV. . | 10 2 40 | 9 21 57 | | SEPT. . | 8 16 22 | 8 14 21 |
| | DEC. . | 9 15 24 | 9 17 31 | | OCT. . | 8 5 6 | 7 23 47 |
| | | | | | NOV. . | 6 17 50 | 6 10 21 |
| | | | | | DEC. . | 6 6 34 | 5 22 23 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 86. E. March. d. h. m. 24 7 30 | | d. h. m. | d. h. m. | B.C. 83. A. March. d. h. m. 24 0 56 | | d. h. m. | d. h. m. |
| | JAN. . | 4 19 19 | 4 11 58 | | JAN. . | { 1 10 29 30 23 13 | 1 17 58 31 4 24 |
| | FEB. . | 3 8 3 | 3 2 38 | | FEB. . | ... | ... |
| | MAR. . | 4 20 47 | 4 18 26 | | MAR. . | { 1 11 57 31 0 41 | 1 13 36 30 22 9 |
| | APRIL | 3 9 31 | 3 10 40 | | APRIL | 29 13 25 | 29 6 51 |
| | MAY . | 2 22 15 | 3 2 38 | | MAY . | 29 2 9 | 28 16 35 |
| | JUNE . | { 1 10 59 30 23 43 | 1 17 32 | | JUNE . | 27 14 53 | 27 4 16 |
| | JULY . | 30 12 27 | { 1 6 55 30 18 47 | | JULY . | 27 3 37 | 26 18 19 |
| | AUG. . | 29 1 11 | 29 5 31 | | AUG. . | 25 16 21 | 25 10 35 |
| | SEPT. . | 27 18 55 | 27 15 47 | | SEPT. . | 24 5 5 | 24 4 15 |
| | OCT. . | 27 2 39 | 27 2 7 | | OCT. . | 23 17 49 | 23 22 12 |
| | NOV. . | 25 15 23 | 25 12 49 | | NOV. . | 22 6 33 | 22 15 15 |
| | DEC. . | 25 4 7 | 24 23 57 | | DEC. . | 21 19 17 | 22 6 28 |
| | O | { 8 22 29 23 16 51 | 9 9 12 23 11 36 | | JAN. . | 20 8 1 | 20 19 23 |
| 85. D.C. 23 13 19 | JAN. . | 22 5 35 | 21 23 55 | 82. G. 24 6 45 | FEB. . | 18 20 45 | 19 6 1 |
| | FEB. . | 22 18 19 | 22 13 10 | | MAR. . | 20 9 29 | 20 14 45 |
| | APRIL | 21 7 3 | 21 3 24 | | APRIL | 18 22 13 | 18 22 19 |
| | MAY . | 20 19 47 | 20 18 28 | | O | { 3 16 35 18 10 57 | 3 23 56 18 5 38 |
| | JUNE . | 19 8 31 | 19 9 51 | | MAY . | 16 23 41 | 16 13 44 |
| | O | { 4 2 53 18 21 15 | 3 20 33 19 0 55 | | JUNE . | 16 12 25 | 15 23 44 |
| | JULY . | 17 9 59 | 17 15 10 | | JULY . | 15 1 9 | 14 12 25 |
| | AUG. . | 15 22 43 | 16 4 25 | | AUG. . | 13 13 53 | 13 4 1 |
| | SEPT. . | 15 11 27 | 15 16 46 | | SEPT. . | 13 2 37 | 12 22 2 |
| | OCT. . | 14 0 11 | 14 4 27 | | OCT. . | { 27 20 59 11 15 21 | 27 17 41 11 17 12 |
| | NOV. . | 13 12 55 | 13 15 33 | | NOV. . | 11 4 5 | 11 11 59 |
| | DEC. . | { 28 7 17 28 9 38 | 28 9 38 | | DEC. . | | |
| | O | | | 81. F.E. 23 12 34 | JAN. . | 9 16 50 | 10 4 56 |
| 84. B. 23 19 8 | JAN. . | 12 1 40 | 12 2 10 | | FEB. . | 8 5 34 | 8 19 9 |
| | FEB. . | 10 14 24 | 10 12 22 | | MAR. . | 8 18 18 | 9 6 28 |
| | MAR. . | 12 3 8 | 11 22 32 | | APRIL | { 7 7 2 22 1 24 | 7 15 20 22 0 81 |
| | APRIL | 10 15 52 | 10 9 16 | | O | 6 19 46 | 6 22 35 |
| | MAY . | 10 4 36 | 9 21 11 | | MAY . | 5 8 80 | 5 5 16 |
| | JUNE . | { 8 17 20 23 11 42 | 8 10 42 23 13 47 | | JUNE . | 4 21 14 | 4 12 28 |
| | O | 8 6 4 | 8 1 46 | | JULY . | 3 9 58 | 2 21 17 |
| | JULY . | 6 18 48 | 6 17 52 | | AUG. . | 1 22 42 | { 1 8 40 30 28 7 |
| | AUG. . | 5 7 32 | 5 10 12 | | SEPT. . | { 1 11 26 16 5 48 | 16 9 17 31 0 10 |
| | SEPT. . | 4 20 16 | 5 2 1 | | OCT. O | 29 12 54 | 29 11 40 |
| | OCT. . | 3 9 0 | 3 16 46 | | NOV. . | 29 1 38 | 29 7 10 |
| | NOV. . | { 2 21 44 17 16 6 | 3 6 7 17 9 34 | | DEC. . | | |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 80. D. March. d. h. m. 23 18 23 | | d. h. m. | d. h. m. | B.C. 77. A.G. March. d. h. m. 23 11 49 | | d. h. m. | d. h. m. |
| | JAN. . | 27 14 23 | 28 1 21 | | JAN. . | 25 5 32 | 24 23 10 |
| | FEB. . | 26 3 7 | 26 16 51 | | ○ | { 8 23 54 | 9 12 32 |
| | MAR. . | 27 15 51 | 23 5 16 | | FEB. . | { 23 18 16 | 23 14 12 |
| | ○ | { 11 10 13 | 11 3 57 | | MAR. . | 24 7 0 | 24 6 1 |
| | APRIL | { 26 4 35 | 26 14 53 | | APRIL | 22 19 44 | 22 22 2 |
| | MAY . | 25 17 19 | 25 22 33 | | MAY . | 22 8 28 | 22 13 30 |
| | JUNE . | 24 6 3 | 24 5 21 | | JUNE . | 20 21 12 | 21 3 45 |
| | JULY . | 23 18 47 | 23 12 22 | | JULY . | 20 9 56 | 20 16 34 |
| | AUG. . | 22 7 31 | 21 20 40 | | ○ | { 4 4 18 | 8 14 49 |
| | SEPT. . | 20 20 15 | 20 7 8 | | AUG. . | { 18 22 40 | 19 4 4 |
| | ○ | { 5 14 37 | 5 20 56 | | SEPT. . | 17 11 24 | 17 14 47 |
| | OCT. . | { 20 8 59 | 19 20 19 | | OCT. . | 17 0 8 | 17 1 15 |
| | NOV. . | 18 21 43 | 18 12 16 | | NOV. . | 15 12 52 | 15 11 53 |
| | DEC. . | 18 10 27 | 18 6 23 | | DEC. . | 15 1 36 | 14 22 46 |
| 79. C. 24 0 12 | JAN. . | 16 23 11 | 17 1 23 | 76. F. 23 17 38 | JAN. . | { 13 14 21 | 13 10 2 |
| | FEB. . | 15 11 55 | 15 19 49 | | ○ | { 28 8 43 | 28 21 23 |
| | MAR. . | 17 0 39 | 17 12 16 | | FEB. . | 12 3 5 | 11 21 44 |
| | APRIL | 15 13 23 | 16 2 0 | | MAR. . | 13 15 49 | 13 10 10 |
| | MAY . | 15 2 7 | 15 12 57 | | APRIL | 12 4 33 | 11 23 37 |
| | JUNE . | 13 14 51 | 13 21 47 | | MAY . | 11 17 17 | 11 14 8 |
| | JULY . | 13 3 35 | 13 5 27 | | JUNE . | 10 6 1 | 10 5 23 |
| | AUG. . | 11 16 19 | 11 13 1 | | JULY . | { 9 18 45 | 9 20 47 |
| | SEPT. . | 10 5 3 | 9 21 28 | | ○ | { 24 13 7 | 24 4 9 |
| | OCT. . | 9 17 47 | 9 7 32 | | AUG. . | 8 7 29 | 8 11 43 |
| | NOV. . | 8 6 31 | 7 19 37 | | SEPT. . | 6 20 13 | 7 1 46 |
| | DEC. . | 7 19 15 | 7 9 53 | | OCT. . | 6 8 57 | 6 14 51 |
| | | | | | NOV. . | 4 21 41 | 5 3 3 |
| | | | | | DEC. . | 4 10 25 | 4 14 33 |
| 78. B. 24 6 1 | JAN. . | 6 8 0 | 6 2 4 | 75. E. 23 23 27 | JAN. . | 2 23 10 | 3 1 21 |
| | FEB. . | { 4 20 44 | 4 19 23 | | FEB. . | 1 11 54 | 1 11 34 |
| | ○ | { 19 15 6 | 19 21 45 | | MAR. . | 8 0 38 | 2 21 23 |
| | MAR. . | 6 9 28 | 6 13 5 | | APRIL | 1 13 22 | { 1 7 33 |
| | APRIL | 4 22 12 | 5 5 46 | | | { 1 2 6 | { 30 18 33 |
| | MAY . | 4 10 56 | 4 20 38 | | MAY . | { 30 14 50 | 30 7 4 |
| | JUNE . | 2 23 40 | 3 9 17 | | ○ | { 14 9 12 | 14 13 53 |
| | JULY . | 2 12 24 | 2 19 54 | | JUNE . | { 29 3 34 | 28 21 20 |
| | | { 1 1 8 | 1 5 10 | | JULY . | 28 16 18 | 28 13 6 |
| | AUG. ○ | { 15 19 30 | 15 8 39 | | AUG. . | 27 5 2 | 27 5 33 |
| | | { 30 13 52 | 30 14 0 | | SEPT. . | 25 17 46 | 25 22 5 |
| | SEPT. . | 29 2 36 | 28 23 12 | | OCT. . | 25 6 30 | 25 13 41 |
| | OCT. . | 28 15 20 | 28 9 20 | | NOV. . | 23 19 14 | 24 3 53 |
| | NOV. . | 27 4 4 | 26 20 39 | | ○ | { 8 13 36 | 8 5 4 |
| | DEC. . | 26 16 48 | 26 9 17 | | DEC. . | { 23 7 53 | 23 16 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 74. D. March. d. h. m. 24 5 16 | | d. h. m. | d. h. m. | B.C. 71. G. March. d. h. m. 23 22 42 | | d. h. m. | d. h. m. |
| | JAN. . | 21 20 42 | 22 3 41 | | JAN. . | 18 11 52 | 18 20 26 |
| | FEB. . | 20 9 26 | 20 13 17 | | FEB. . | 17 0 36 | 17 13 18 |
| | MAR. . | 21 22 10 | 21 21 52 | | MAR. . | 18 13 20 | 19 3 11 |
| | APRIL . | 20 10 54 | 20 6 10 | | ○ | { 2 7 42 | 2 1 27 |
| | MAY . | 19 23 38 | 19 15 5 | | APRIL . | { 17 2 4 | 17 14 5 |
| | ○ | { 3 18 0 | 4 3 42 | | MAY . | 16 14 48 | 16 22 35 |
| | JUNE . | { 18 12 22 | 18 1 35 | | JUNE . | 15 3 32 | 15 5 42 |
| | JULY . | 18 1 6 | 17 14 24 | | JULY . | 14 16 16 | 14 12 32 |
| | AUG. . | 16 13 50 | 16 5 40 | | AUG. . | 13 5 0 | 12 20 13 |
| | SEPT. . | 15 2 34 | 14 22 56 | | SEPT. . | { 11 17 44 | 11 5 37 |
| | OCT. . | 14 15 18 | 14 17 7 | | ○ | { 26 12 6 | 26 17 44 |
| | NOV. . | { 13 4 2 | 13 11 0 | | OCT. . | 11 6 28 | 10 17 29 |
| | ○ | { 27 22 24 | 27 13 20 | | NOV. . | 9 19 12 | 9 8 7 |
| | DEC. . | 12 16 46 | 13 3 21 | | DEC. . | 9 7 56 | 9 1 11 |
| 73. C.B. 23 11 5 | JAN. . | 11 5 31 | 11 17 28 | 70. F. 24 4 31 | JAN. . | 7 20 41 | 7 19 47 |
| | FEB. . | 9 18 15 | 10 5 9 | | FEB. . | 6 9 25 | 6 14 33 |
| | MAR. . | 10 6 59 | 10 14 37 | | MAR. . | { 7 22 9 | 8 7 58 |
| | APRIL . | 8 19 43 | 8 22 31 | | ○ | { 22 16 31 | 22 13 50 |
| | MAY . | { 8 8 27 | 8 5 40 | | APRIL . | 6 10 53 | 6 23 2 |
| | ○ | { 23 2 49 | 23 10 27 | | MAY . | 5 23 37 | 6 11 20 |
| | JUNE . | 6 21 11 | 6 18 9 | | JUNE . | 4 12 21 | 4 21 10 |
| | JULY . | 6 9 55 | 5 22 2 | | JULY . | 4 1 5 | 4 5 23 |
| | AUG. . | 4 22 39 | 4 9 19 | | AUG. . | 2 13 49 | { 2 13 3 |
| | SEPT. . | 3 11 23 | 2 23 33 | | ○ | { 1 2 33 | { 31 21 9 |
| | OCT. . | 3 0 7 | 2 16 35 | | SEPT. . | { 15 20 55 | 15 20 30 |
| | NOV. . | { 1 12 51 | 1 11 29 | | ○ | { 30 15 17 | 30 6 30 |
| | ○ | { 16 7 13 | 16 3 29 | | OCT. . | 30 4 1 | 29 17 37 |
| | DEC. . | { 1 1 35 | 1 6 47 | | NOV. . | 28 16 45 | 28 6 47 |
| | | { 30 14 19 | 31 0 51 | | DEC. . | 28 5 29 | 27 21 55 |
| 72. A. 23 16 54 | JAN. . | 29 8 4 | 29 16 29 | 69. E.D. 23 10 20 | JAN. . | 26 18 14 | 26 14 36 |
| | FEB. . | 27 15 48 | 28 5 9 | | FEB. . | 25 6 53 | 25 7 59 |
| | MAR. . | 29 4 32 | 29 15 8 | | ○ | { 11 1 20 | 11 6 12 |
| | APRIL . | 27 17 16 | 27 22 54 | | MAR. . | { 25 19 42 | 26 1 4 |
| | MAY . | 27 6 0 | 27 5 40 | | APRIL . | 24 8 26 | 24 16 50 |
| | JUNE . | 25 18 44 | 25 12 27 | | MAY . | 23 21 10 | 24 6 37 |
| | JULY . | 25 7 23 | 24 20 22 | | JUNE . | 22 9 54 | 22 13 19 |
| | AUG. . | 23 20 12 | 23 6 27 | | JULY . | 21 22 33 | 22 4 21 |
| | SEPT. . | 22 8 56 | 21 19 25 | | AUG. . | 20 11 22 | 20 13 32 |
| | OCT. . | 21 21 40 | 21 11 27 | | ○ | { 4 5 44 | 8 20 20 |
| | NOV. . | 20 10 24 | 20 5 55 | | SEPT. . | { 19 0 6 | 18 22 41 |
| | DEC. . | 19 23 8 | 20 1 23 | | OCT. . | 18 12 50 | 18 8 29 |
| | | | | | NOV. . | 17 1 34 | 16 19 17 |
| | | | | | DEC. . | 16 14 18 | 16 7 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 68. c. March. d. h. m. 23 16 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 65. g.f. March. d. h. m. 23 9 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 3 2 | 14 20 15 | | JAN. . | 12 18 12 | 13 2 48 |
| | FEB. . | 13 15 46 | 13 10 28 | | FEB. . | 11 6 56 | 11 12 53 |
| | MAR. . | 15 4 30 | 15 1 39 | | MAR. . | 11 19 40 | 11 21 43 |
| | APRIL | 13 17 14 | 13 17 24 | | APRIL | 10 8 24 | 10 5 50 |
| | MAY . | 13 5 58 | 13 9 7 | | MAY . | 9 21 8 | 9 14 7 |
| | JUNE . | 11 18 42 | 12 0 5 | | JUNE . | 8 9 52 | 7 23 31 |
| | JULY . | 11 7 26 | 11 13 48 | | JULY . | 7 22 36 | 7 11 7 |
| | AUG. . | 9 20 10 | 10 2 10 | | AUG. . | 6 11 20 | 6 1 13 |
| | SEPT. . | 8 8 54 | 8 13 29 | | SEPT. . | 5 0 4 | 4 17 42 |
| | OCT. . | 7 21 38 | 8 0 16 | | OCT. . | 4 12 48 | 4 11 47 |
| | NOV. . | 6 10 22 | 6 10 59 | | NOV. . | 3 1 32 | 3 6 11 |
| | DEC. . | 5 23 6 | 5 21 47 | | DEC. . | 2 14 16 | 2 23 35 |
| 67. B. 23 21 58 | JAN. . | { 4 11 51 | 4 8 45 | 64. E. 23 15 24 | JAN. . | { 1 3 0 | 1 14 57 |
| | ○ | { 19 6 13 | 19 17 11 | | FEB. . | { 30 15 44 | 31 3 48 |
| | FEB. . | 3 0 35 | 2 20 0 | | ... | ... | ... |
| | MAR. . | 4 13 19 | 4 7 44 | | MAR. . | { 1 4 29 | 1 14 12 |
| | APRIL | 3 2 3 | 2 20 21 | | ... | { 30 17 13 | 30 22 39 |
| | MAY . | 2 14 47 | 2 10 6 | | APRIL | 29 5 57 | 29 5 55 |
| | JUNE . | { 1 3 31 | 1 0 55 | | ○ | { 14 0 19 | 14 6 30 |
| | ○ | { 30 16 15 | 30 16 22 | | MAY . | { 28 18 41 | 28 12 59 |
| | JULY . | { 15 10 37 | 15 4 8 | | JUNE . | 27 7 25 | 26 20 58 |
| | AUG. . | { 30 4 59 | 30 7 47 | | JULY . | 26 20 9 | 26 6 58 |
| | SEPT. . | 28 17 43 | 28 22 35 | | AUG. . | 25 8 53 | 24 19 45 |
| | OCT. . | 27 6 27 | 27 12 27 | | SEPT. . | 23 21 37 | 23 11 32 |
| | NOV. . | 26 19 11 | 27 1 20 | | OCT. . | 23 10 21 | 23 5 45 |
| | DEC. . | 25 7 55 | 25 13 20 | | ○ | { 7 4 43 | 7 2 38 |
| | ○ | { 24 20 39 | 25 0 29 | | NOV. . | { 21 23 5 | 22 1 10 |
| 66. A. 24 3 47 | JAN. . | { 8 15 2 | 8 17 25 | 63. D. 23 21 13 | DEC. . | 21 11 49 | 21 20 7 |
| | ○ | { 23 9 24 | 23 10 53 | | JAN. . | 20 0 33 | 20 13 4 |
| | FEB. . | 21 22 8 | 21 20 40 | | FEB. . | 18 13 17 | 19 3 10 |
| | MAR. . | 23 10 52 | 23 6 18 | | MAR. . | 20 2 1 | 20 14 17 |
| | APRIL | 21 23 36 | 21 16 30 | | APRIL | 18 14 45 | 18 22 57 |
| | MAY . | 21 12 20 | 21 3 59 | | ○ | { 3 9 7 | 3 7 6 |
| | JUNE . | 20 1 4 | 19 17 18 | | MAY . | { 18 3 29 | 18 6 4 |
| | ○ | { 4 19 26 | 4 21 18 | | JUNE . | 16 16 13 | 16 12 41 |
| | JULY . | { 19 13 48 | 19 8 24 | | JULY . | 16 4 57 | 15 19 56 |
| | AUG. . | 18 2 32 | 18 0 48 | | AUG. . | 14 17 41 | 14 4 54 |
| | SEPT. . | 16 15 16 | 16 17 39 | | SEPT. . | 13 6 25 | 12 16 26 |
| | OCT. . | 16 4 0 | 16 10 3 | | OCT. . | { 12 19 9 | 12 7 2 |
| | NOV. . | 14 16 44 | 15 1 17 | | ○ | { 27 13 31 | 27 17 57 |
| | DEC. . | { 14 5 23 | 14 14 53 | | NOV. . | 11 7 53 | 11 0 26 |
| | ○ | { 23 23 50 | 23 17 43 | | DEC. . | 10 20 37 | 10 19 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 62. c. March. d. h. m. 24 8 1 | | d. h. m. | d. h. m. | B.C. 59. F. March. d. h. m. 23 20 28 | | d. h. m. | d. h. m. |
| | JAN. . | 9 9 22 | 9 15 4 | | JAN. . | 6 0 32 | 5 17 52 |
| | FEB. . | 7 22 6 | 8 9 2 | | FEB. . | 4 13 16 | 4 7 15 |
| | MAR. . | 9 10 50 | 10 0 24 | | ○ | 19 7 38 | 19 20 41 |
| | APRIL | 7 23 34 | 8 12 41 | | MAR. . | 6 2 0 | 5 21 40 |
| | ○ | 22 17 56 | 22 11 0 | | APRIL | 4 14 44 | 4 12 56 |
| | MAY . | 7 12 18 | 7 22 15 | | MAY . | 4 3 28 | 4 4 35 |
| | JUNE . | 6 1 2 | 6 5 55 | | JUNE . | 2 16 12 | 2 19 59 |
| | JULY . | 5 13 46 | 5 12 50 | | JULY . | 2 4 56 | 2 10 29 |
| | AUG. . | 4 2 30 | 3 20 6 | | ○ | 81 17 40 | 31 23 44 |
| | SEPT. . | 2 15 14 | 2 4 40 | | ○ | 15 12 2 | 14 22 19 |
| | ○ | 2 3 58 | 1 15 22 | | AUG. . | 30 6 24 | 30 11 49 |
| | OCT. ○ | 16 22 20 | 17 5 7 | | SEPT. . | 28 19 8 | 28 23 5 |
| | ○ | 31 16 42 | 31 4 38 | | OCT. . | 28 7 52 | 28 9 59 |
| | NOV. . | 30 5 26 | 29 20 31 | | NOV. . | 26 20 36 | 26 20 50 |
| | DEC. . | 29 18 10 | 29 14 22 | | DEC. . | 26 9 20 | 26 7 41 |
| 61. B.A. 28 8 50 | JAN. . | 28 6 55 | 28 9 4 | 58. E. 24 2 17 | JAN. . | 24 22 5 | 24 18 36 |
| | FEB. . | 26 19 39 | 27 8 9 | | ○ | 8 16 27 | 9 5 15 |
| | MAR. . | 27 8 23 | 27 19 23 | | FEB. . | 23 10 49 | 23 5 47 |
| | APRIL | 25 21 7 | 26 9 2 | | MAR. . | 24 23 38 | 24 17 37 |
| | MAY . | 25 9 51 | 25 20 3 | | APRIL | 23 12 17 | 23 6 30 |
| | JUNE . | 23 22 35 | 24 5 4 | | MAY . | 23 1 1 | 22 20 40 |
| | JULY . | 23 11 19 | 23 18 2 | | JUNE . | 21 13 45 | 21 11 49 |
| | AUG. . | 22 0 8 | 21 21 0 | | JULY . | 21 2 29 | 21 3 26 |
| | SEPT. . | 20 12 47 | 20 5 49 | | ○ | 4 20 51 | 4 11 50 |
| | OCT. . | 20 1 31 | 19 16 8 | | AUG. . | 19 15 13 | 19 18 52 |
| | NOV. . | 18 14 15 | 18 4 16 | | SEPT. . | 18 8 57 | 18 9 32 |
| | DEC. . | 18 2 59 | 17 18 22 | | OCT. . | 17 16 41 | 17 23 12 |
| | | | | | NOV. . | 16 5 25 | 16 11 50 |
| | | | | | DEC. . | 15 18 9 | 15 23 28 |
| 60 G. 23 14 39 | JAN. . | 16 15 43 | 16 10 7 | 57. D.C. 23 8 6 | JAN. . | 14 6 53 | 14 10 10 |
| | FEB. . | 15 4 27 | 15 2 59 | | FEB. . | 12 19 37 | 12 20 2 |
| | ○ | 1 22 49 | 2 5 59 | | MAR. . | 13 8 21 | 13 5 26 |
| | MAR. . | 16 17 11 | 16 20 7 | | APRIL | 11 21 5 | 11 14 59 |
| | APRIL | 15 5 55 | 15 12 30 | | MAY . | 11 9 49 | 11 1 31 |
| | MAY . | 14 18 39 | 15 8 18 | | JUNE . | 9 22 33 | 9 13 44 |
| | JUNE . | 13 7 23 | 13 16 8 | | JULY . | 9 11 17 | 9 8 56 |
| | JULY . | 12 20 7 | 13 3 6 | | AUG. . | 8 0 1 | 7 19 53 |
| | AUG. . | 11 8 51 | 11 12 50 | | SEPT. . | 6 12 45 | 6 12 51 |
| | ○ | 26 8 13 | 25 15 50 | | OCT. . | 6 1 29 | 6 5 51 |
| | SEPT. . | 9 21 35 | 9 22 10 | | NOV. . | 4 14 13 | 4 22 0 |
| | OCT. . | 9 10 19 | 9 7 47 | | DEC. . | 4 2 57 | 4 12 37 |
| | NOV. . | 7 23 8 | 7 13 11 | | ○ | 18 21 19 | 18 13 21 |
| | DEC. . | 7 11 47 | 7 5 30 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 56. B. March. d. h. m. 23 13 54 | JAN. . | d. h. m. 2 15 42 | d. h. m. 3 1 23 | B.C. 53. F.E. March. d. h. m. 23 7 21 | JAN. . | d. h. m. 29 19 36 | d. h. m. 30 4 11 |
| | FEB. . | 1 4 26 | 1 12 16 | | FEB. . | 28 8 20 | 28 20 51 |
| | MAR. . | 2 17 10 | 2 21 32 | | MAR. . | 28 21 4 | 29 10 36 |
| | APRIL | { 1 5 54 | 1 5 43 | | ○ | { 12 15 26 | 12 8 44 |
| | | { 30 18 38 | 30 18 36 | | APRIL | { 27 9 48 | 27 21 25 |
| | MAY . | 30 7 22 | 29 22 12 | | MAY . | 26 22 32 | 27 5 54 |
| | ○ | { 14 1 44 | 14 10 44 | | JUNE . | 25 11 16 | 25 13 9 |
| | JUNE . | { 28 20 6 | 28 8 32 | | JULY . | 25 0 0 | 24 20 14 |
| | JULY . | 28 8 50 | 27 21 18 | | AUG. . | 23 12 44 | 23 4 10 |
| | AUG. . | 26 21 34 | 26 12 46 | | SEPT. . | 22 1 28 | 21 13 51 |
| | SEPT. . | 25 10 18 | 25 6 21 | | ○ | { 6 19 50 | 7 1 42 |
| | OCT. . | 24 23 2 | 25 0 56 | | OCT. . | { 21 14 12 | 21 1 52 |
| | NOV. . | 23 11 46 | 23 19 12 | | NOV. . | 20 2 56 | 19 16 28 |
| | ○ | { 8 6 8 | 7 22 5 | | DEC. . | 19 15 40 | 19 9 20 |
| | DEC. . | { 23 0 30 | 23 11 46 | | | | |
| 55. A. 23 19 43 | JAN. . | 21 13 15 | 22 1 55 | 52. D. 23 13 10 | JAN. . | 18 4 24 | 18 8 36 |
| | FEB. . | 20 1 59 | 20 13 24 | | FEB. . | 16 17 8 | 16 21 57 |
| | MAR. . | 21 14 43 | 21 22 36 | | MAR. . | 18 5 52 | 18 15 6 |
| | APRIL | 20 3 27 | 20 6 12 | | ○ | { 2 0 14 | 1 21 34 |
| | MAY . | 19 16 11 | 19 13 7 | | APRIL | { 16 18 36 | 17 6 1 |
| | ○ | { 3 10 33 | 3 17 2 | | MAY . | 16 7 20 | 16 18 19 |
| | JUNE . | { 18 4 55 | 17 20 27 | | JUNE . | 14 20 4 | 15 4 21 |
| | JULY . | 17 17 39 | 17 5 19 | | JULY . | 14 8 48 | 14 12 52 |
| | AUG. . | 16 6 23 | 15 16 40 | | AUG. . | 12 21 32 | 12 20 53 |
| | SEPT. . | 14 19 7 | 14 7 2 | | SEPT. . | { 11 10 16 | 11 5 23 |
| | OCT. . | 14 7 51 | 14 0 16 | | ○ | { 26 4 38 | 26 3 56 |
| | NOV. . | { 12 20 35 | 12 19 23 | | OCT. . | 10 23 0 | 10 15 3 |
| | ○ | { 27 14 57 | 27 12 26 | | NOV. . | 9 11 44 | 9 2 18 |
| | DEC. . | 12 9 19 | 12 14 50 | | DEC. . | 9 0 28 | 8 15 23 |
| 54. G. 24 1 32 | JAN. . | 10 22 3 | 11 8 57 | 51. C. 23 18 59 | JAN. . | 7 13 13 | 7 6 11 |
| | FEB. . | 9 10 47 | 10 0 29 | | FEB. . | 6 1 57 | 5 22 19 |
| | MAR. . | 10 23 31 | 11 13 0 | | MAR. . | { 7 14 41 | 7 15 11 |
| | APRIL | 9 12 15 | 9 22 42 | | ○ | { 22 9 3 | 22 14 11 |
| | MAY . | 9 0 59 | 9 6 22 | | APRIL | 6 3 25 | 6 7 51 |
| | JUNE . | 7 13 43 | 7 13 5 | | MAY . | 5 16 9 | 5 23 27 |
| | JULY . | 7 2 27 | 6 19 55 | | JUNE . | 4 4 53 | 4 13 21 |
| | AUG. . | 5 15 11 | 5 3 58 | | JULY . | 3 17 37 | 4 1 21 |
| | SEPT. . | 4 3 55 | 3 14 13 | | AUG. . | { 2 6 21 | 2 11 50 |
| | OCT. . | 3 16 39 | 3 3 21 | | | { 31 19 5 | 31 21 31 |
| | NOV. . | 2 5 23 | 1 19 28 | | ○ | { 15 18 27 | 15 3 42 |
| | DEC. . | { 1 18 7 | 1 13 55 | | SEPT. . | 30 7 49 | 30 7 9 |
| | | { 31 6 51 | 31 9 22 | | OCT. . | 29 20 33 | 29 17 17 |
| | | | | | NOV. . | 28 9 17 | 28 4 10 |
| | | | | | DEC. . | 27 22 1 | 27 15 55 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 50. B. March. <i>d. h. m.</i> 24 0 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 47. E. March. <i>d. h. m.</i> 23 18 14 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26 10 46 | 26 4 34 | | ○ | { 8 7 34 | 8 1 48 |
| | FEB. . | 24 23 30 | 24 18 11 | | JAN. . | { 23 1 56 | 23 11 22 |
| | MAR. . | 26 12 14 | 26 8 45 | | FEB. . | 21 14 40 | 21 21 15 |
| | APRIL | 25 0 58 | 25 0 5 | | MAR. . | 23 3 24 | 23 5 42 |
| | MAY . | 24 13 42 | 24 15 36 | | APRIL | 21 16 8 | 21 13 25 |
| | JUNE . | 23 2 26 | 23 6 39 | | MAY . | 21 4 52 | 20 21 23 |
| | JULY . | 22 15 10 | 22 20 44 | | JUNE . | 19 17 36 | 19 6 37 |
| | AUG. . | 21 3 54 | 21 9 40 | | ○ | { 4 11 58 | 4 19 19 |
| | SEPT. . | 19 16 38 | 19 21 35 | | JULY . | { 19 6 20 | 18 18 4 |
| | OCT. . | 19 5 22 | 19 8 52 | | AUG. . | 17 19 4 | 17 8 16 |
| | NOV. . | 17 18 6 | 17 19 53 | | SEPT. . | 16 7 43 | 16 1 0 |
| | DEC. . | 17 6 50 | 17 6 45 | | OCT. . | 15 20 32 | 15 19 28 |
| | | | | | NOV. . | 14 9 16 | 14 14 14 |
| | | | | | DEC. . | 13 22 0 | 14 7 54 |
| 49. A.G. | JAN. . | { 15 19 34 | 15 17 30 | | JAN. . | 12 10 44 | 12 23 21 |
| | ○ | { 30 13 56 | 31 1 1 | | FEB. . | 10 23 28 | 11 12 5 |
| | FEB. . | 14 8 18 | 14 4 15 | 46. D. | MAR. . | 12 12 12 | 12 22 15 |
| 23 6 36 | MAR. . | 14 21 2 | 14 15 24 | 24 0 3 | APRIL | 11 0 56 | 11 6 24 |
| | APRIL | 13 9 46 | 13 3 27 | | MAY . | 10 13 40 | 10 13 25 |
| | MAY . | 12 22 30 | 12 16 45 | | JUNE . | 9 2 24 | 8 20 20 |
| | JUNE . | 11 11 14 | 11 7 23 | | JULY . | 8 15 8 | 8 4 17 |
| | JULY . | { 10 23 58 | 10 22 54 | | AUG. . | 7 3 52 | 6 14 19 |
| | ○ | { 25 18 20 | 25 11 45 | | SEPT. . | 5 16 36 | 5 3 13 |
| | AUG. . | 9 12 42 | 9 14 42 | | OCT. . | 5 5 20 | 4 19 11 |
| | SEPT. . | 8 1 26 | 8 6 4 | | NOV. . | { 3 18 4 | 3 13 36 |
| | OCT. . | 7 14 10 | 7 20 34 | | ○ | { 18 12 26 | 18 11 30 |
| | NOV. . | 6 2 54 | 6 9 57 | | DEC. . | 3 6 48 | 3 9 9 |
| | DEC. . | 5 15 38 | 5 22 12 | | | | |
| 48. F. | JAN. . | { 4 4 23 | 4 9 21 | | JAN. . | { 1 19 33 | 2 4 8 |
| | ○ | { 18 22 45 | 19 1 10 | 45. C.B. | FEB. . | { 31 8 17 | 31 21 4 |
| | FEB. . | 2 17 7 | 2 19 28 | | ... | 29 21 1 | ... |
| 23 12 25 | MAR. . | 4 5 51 | 4 4 49 | | ... | ... | { 1 11 2 |
| | APRIL | 2 13 35 | 2 13 57 | | MAR. . | 30 9 45 | { 30 21 59 |
| | MAY . | { 2 7 19 | 1 23 39 | | APRIL | 28 22 29 | 29 6 29 |
| | JUNE . | { 31 20 3 | 31 10 47 | | ○ | { 13 16 51 | 13 13 39 |
| | ○ | { 15 3 9 | 15 4 49 | | MAY . | { 28 11 13 | 28 13 31 |
| | JULY . | { 29 21 31 | 29 15 6 | | JUNE . | 26 23 57 | 26 20 10 |
| | AUG. . | 23 10 15 | 23 7 50 | | JULY . | 26 12 41 | 26 3 33 |
| | SEPT. . | 26 22 59 | 27 1 11 | | AUG. . | 25 1 25 | 24 12 41 |
| | OCT. . | 26 11 43 | 26 18 8 | | SEPT. . | 23 14 9 | 23 0 23 |
| | NOV. . | 25 0 27 | 25 9 47 | | OCT. . | 23 2 53 | 22 15 6 |
| | DEC. . | 24 13 11 | 24 23 35 | | ○ | { 6 21 15 | 7 2 42 |
| | | | | | NOV. . | { 21 15 37 | 21 8 30 |
| | | | | | DEC. . | 21 4 21 | 21 3 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| B.C. 44. A. March. d. h. m. 23 11 40 | | d. h. m. | d. h. m. | B.C. 41. E.D. March. d. h. m. 23 5 7 | | d. h. m. | d. h. m. |
| | JAN. . | 19 17 5 | 19 22 48 | | JAN. . | 17 8 16 | 17 2 23 |
| | FEB. . | 18 5 50 | 18 16 36 | | FEB. . | 15 21 0 | 15 15 13 |
| | MAR. . | 19 18 34 | 20 7 47 | | ○ | { 1 15 22 | 2 4 41 |
| | APRIL | 18 7 18 | 18 19 59 | | MAR. . | { 16 9 44 | 16 5 1 |
| | ○ | { 3 1 40 | 2 18 1 | | APRIL | 14 22 28 | 14 19 45 |
| | MAY . | { 17 20 2 | 18 5 32 | | MAY . | 14 11 12 | 14 11 5 |
| | JUNE . | 16 8 46 | 16 13 19 | | JUNE . | 12 23 56 | 13 2 28 |
| | JULY . | 15 21 30 | 15 20 27 | | JULY . | 12 12 40 | 12 17 13 |
| | AUG. . | 14 10 14 | 14 3 59 | | AUG. . | { 11 1 24 | 11 6 59 |
| | SEPT. . | 12 22 58 | 12 12 51 | | ○ | { 25 19 46 | 25 5 58 |
| | OCT. . | { 12 11 42 | 11 23 45 | | SEPT. . | 9 14 8 | 9 19 40 |
| | ○ | { 27 6 4 | 27 13 23 | | OCT. . | 9 2 52 | 9 7 30 |
| | NOV. . | 11 0 26 | 10 13 5 | | NOV. . | 7 15 36 | 7 18 49 |
| | DEC. . | 10 13 10 | 10 4 48 | | DEC. . | 7 4 20 | 7 5 49 |
| 43. G. 23 17 29 | JAN. . | 9 1 54 | 8 22 20 | 40. C. 23 10 56 | JAN. . | 5 17 4 | 5 16 33 |
| | FEB. . | 7 14 38 | 7 16 36 | | FEB. . | { 4 5 48 | 4 3 5 |
| | MAR. . | 9 3 22 | 9 10 19 | | ○ | { 19 0 10 | 19 12 56 |
| | APRIL | 7 16 6 | 8 2 21 | | MAR. . | 5 18 32 | 5 13 42 |
| | MAY . | 7 4 50 | 7 15 57 | | APRIL | 4 7 16 | 4 0 57 |
| | JUNE . | 5 17 34 | 6 3 7 | | MAY . | 3 20 0 | 3 13 21 |
| | JULY . | 5 6 18 | 5 12 24 | | JUNE . | 2 8 44 | 2 3 11 |
| | AUG. . | 3 19 2 | 3 20 44 | | JULY . | { 1 21 28 | 1 18 19 |
| | SEPT. . | 2 7 46 | 2 5 6 | | ○ | { 31 10 12 | 31 10 12 |
| | ○ | { 1 20 30 | 1 14 18 | | AUG. . | { 15 4 34 | 14 19 39 |
| | OCT. . | { 31 9 14 | 31 0 50 | | SEPT. . | { 29 22 56 | 30 2 7 |
| | NOV. . | 29 21 58 | 29 12 59 | | OCT. . | 28 11 40 | 28 17 24 |
| | DEC. . | 29 10 42 | 29 2 48 | | NOV. . | 28 0 24 | 28 7 33 |
| 42. F. 23 23 18 | JAN. . | 27 23 26 | 27 18 5 | 39. B. 23 16 45 | JAN. . | 24 14 87 | 24 18 53 |
| | FEB. . | 26 12 11 | 26 10 23 | | FEB. . | 23 3 21 | 23 4 22 |
| | ○ | { 13 6 33 | 13 14 5 | | MAR. . | 24 16 5 | 24 13 16 |
| | MAR. . | { 28 0 55 | 28 3 3 | | APRIL | 23 4 49 | 22 22 20 |
| | APRIL | 26 13 39 | 26 19 10 | | MAY . | 22 17 33 | 22 8 29 |
| | MAY . | 26 2 23 | 26 9 58 | | JUNE . | 21 6 17 | 20 20 27 |
| | JUNE . | 24 15 7 | 24 23 0 | | JULY . | 20 19 1 | 20 10 88 |
| | JULY . | 24 3 51 | 24 10 23 | | AUG. . | 19 7 45 | 19 2 43 |
| | AUG. . | 22 16 35 | 22 20 38 | | SEPT. . | 17 20 29 | 17 20 11 |
| | ○ | { 6 10 57 | 5 23 11 | | OCT. . | 17 9 13 | 17 18 44 |
| | SEPT. . | { 21 5 19 | 21 6 28 | | NOV. . | 15 21 57 | 16 6 20 |
| | OCT. . | 20 18 3 | 20 16 29 | | DEC. . | { 15 10 41 | 15 21 15 |
| | NOV. . | 19 6 47 | 19 3 5 | | ○ | { 30 5 3 | 20 21 38 |
| | DEC. . | 18 19 31 | 18 14 22 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 38. A. March. d. h. m. 23 22 33 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 35. D. March. d. h. m. 23 16 0 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 23 25 | 14 10 2 | | JAN. . | 10 14 35 | 10 17 11 |
| | FEB. . | 12 12 9 | 12 20 43 | | FEB. . | 9 3 19 | 9 11 44 |
| | MAR. . | 14. 0 53 | 14 5 39 | | MAR. . | 10 16 3 | 11 4 14 |
| | APRIL | 12 13 37 | 12 13 25 | | APRIL | 9 4 47 | 9 17 51 |
| | MAY . | 12 2 21 | 11 20 59 | | ○ | 23 23 9 | 23 15 56 |
| | JUNE . | 10 15 5 | 10 5 20 | | MAY . | 8 17 31 | 9 4 37 |
| | ○ | 25 9 27 | 25 17 45 | | JUNE . | 7 6 15 | 7 13 13 |
| | JULY . | 10 3 49 | 9 15 32 | | JULY . | 6 18 59 | 6 20 33 |
| | AUG. . | 8 16 33 | 8 4 21 | | AUG. . | 5 7 43 | 5 3 59 |
| | SEPT. . | 7 5 17 | 6 19 59 | | SEPT. . | 3 20 27 | 3 12 15 |
| | OCT. . | 6 18 1 | 6 13 53 | | OCT. . | 3 9 11 | 2 22 11 |
| | NOV. . | 5 6 45 | 5 8 50 | | ○ | 18 3 33 | 18 9 43 |
| | DEC. . | 4 19 29 | 5 3 22 | | NOV. . | 1 21 55 | 1 10 21 |
| | ○ | 19 13 51 | 19 6 49 | | DEC. . | 1 10 39 | 1 0 52 |
| | | | | | | 30 23 23 | 30 17 27 |
| 37. G.F. 23 4 22 | JAN. . | 3 8 14 | 3 20 7 | 34. C. 23 21 49 | JAN. . | 29 12 8 | 29 11 17 |
| | FEB. . | 1 20 58 | 2 10 12 | | FEB. . | 28 0 52 | 28 5 14 |
| | MAR. . | 2 9 42 | 2 21 30 | | MAR. . | 29 13 36 | 29 22 5 |
| | APRIL | 31 22 26 | 1 6 25 | | ○ | 13 7 58 | 13 5 14 |
| | MAY . | 30 11 10 | 30 13 47 | | APRIL | 28 2 20 | 28 12 54 |
| | ○ | 29 23 54 | 29 20 32 | | MAY . | 27 15 4 | 28 1 17 |
| | JUNE . | 13 18 16 | 13 23 36 | | JUNE . | 26 3 48 | 26 11 32 |
| | JULY . | 28 12 38 | 28 3 43 | | JULY . | 25 16 32 | 25 20 24 |
| | AUG. . | 28 1 22 | 27 12 42 | | AUG. . | 24 5 16 | 24 4 52 |
| | SEPT. . | 26 14 6 | 26 0 9 | | SEPT. . | 22 18 0 | 22 13 46 |
| | OCT. . | 25 2 50 | 24 14 42 | | ○ | 7 12 22 | 7 11 31 |
| | NOV. . | 21 15 34 | 24 8 5 | | OCT. . | 22 6 44 | 21 23 44 |
| | ○ | 23 4 18 | 23 3 19 | | NOV. . | 20 19 23 | 20 11 6 |
| | DEC. . | 7 22 40 | 7 21 23 | | DEC. . | 20 8 12 | 20 0 0 |
| | | 22 17 2 | 22 22 49 | | | | |
| 36. E. 23 10 11 | JAN. . | 21 5 47 | 21 16 52 | 33. B.A. 23 3 33 | JAN. . | 18 20 57 | 18 14 22 |
| | FEB. . | 19 18 31 | 20 8 20 | | FEB. . | 17 9 41 | 17 5 58 |
| | MAR. . | 21. 7 15 | 21 20 41 | | MAR. . | 17 22 25 | 17 22 16 |
| | APRIL | 19 19 59 | 20 6 14 | | ○ | 1 16 47 | 1 22 4 |
| | MAY . | 19 8 43 | 19 13 51 | | APRIL | 16 11 9 | 16 14 34 |
| | JUNE . | 17 21 27 | 17 20 33 | | MAY . | 15 23 53 | 16 6 3 |
| | JULY . | 17 10 11 | 17 3 30 | | JUNE . | 14 12 37 | 14 20 3 |
| | AUG. . | 15 22 55 | 15 11 44 | | JULY . | 14 1 21 | 14 8 26 |
| | SEPT. . | 14.11 39 | 13 22 10 | | AUG. . | 12 14 5 | 12 19 24 |
| | OCT. . | 14. 0 23 | 13 11 27 | | SEPT. . | 11 2 49 | 11 5 33 |
| | NOV. . | 12 13 7 | 12 3 35 | | ○ | 25 21 11 | 25 11 13 |
| | DEC. . | 12. 1 51 | 11 21 56 | | OCT. . | 10 15 33 | 10 15 44 |
| | | | | | NOV. . | 9 4 17 | 9 2 11 |
| | | | | | DEC. . | 8 17 1 | 8 13 7 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 32. g. March. d. h. m. 23 9 26 | JAN. . | d. h. m. | d. h. m. | B.C. 29. D.C. March. d. h. m. 23 2 53 | JAN. . | d. h. m. | d. h. m. |
| | FEB. . | 7 5 45 | 7 0 37 | | ○ | { 4 20 55 | 5 8 14 |
| | MAR. . | 5 18 29 | 5 12 47 | | FEB. . | { 19 15 17 | 19 9 50 |
| | APRIL | 7 7 13 | 7 1 46 | | MAR. . | 3 9 39 | 3 19 52 |
| | MAY . | 5 19 57 | 5 15 46 | | APRIL | 3 22 23 | 4 5 27 |
| | JUNE . | 5 8 41 | 5 6 39 | | MAY . | 2 11 7 | 2 13 32 |
| | JULY . | 3 21 25 | 3 22 1 | | ○ | { 1 23 51 | 1 20 56 |
| | AUG. . | 3 10 9 | 3 13 14 | | JUNE . | { 31 12 35 | 31 4 38 |
| | SEPT. . | { 1 22 53 | 2 3 44 | | ○ | { 30 1 19 | 29 13 43 |
| | OCT. . | { 31 11 37 | 31 17 14 | | JULY . | { 14 19 41 | 15 2 33 |
| | NOV. . | 30 0 21 | 30 5 46 | | AUG. . | { 29 14 3 | 29 1 9 |
| | DEC. . | 29 13 5 | 29 17 33 | | SEPT. . | 28 2 47 | 27 15 28 |
| | | 28 1 49 | 28 4 49 | | OCT. . | 26 15 31 | 26 8 28 |
| | | 27 14 33 | 27 15 40 | | NOV. . | 26 4 15 | 26 3 13 |
| | | | | | DEC. . | 24 16 59 | 24 22 17 |
| 31. F. | JAN. . | 26 3 18 | 26 2 9 | | | 24 5 43 | 24 16 9 |
| | ○ | { 9 21 40 | 10 8 43 | 28. B. | JAN. . | 22 18 23 | 23 7 38 |
| 23 15 15 | FEB. . | { 24 16 2 | 24 12 25 | 23 8 42 | FEB. . | 21 7 12 | 21 20 14 |
| | MAR. . | 26 4 46 | 25 22 59 | | MAR. . | 22 19 56 | 23 6 9 |
| | APRIL | 24 17 30 | 24 10 29 | | APRIL | 21 8 40 | 21 14 3 |
| | MAY . | 24 6 14 | 23 23 24 | | MAY . | 20 21 24 | 20 20 53 |
| | JUNE . | 22 18 58 | 22 13 52 | | JUNE . | 19 10 8 | 19 3 44 |
| | JULY . | 22 7 42 | 22 5 33 | | JULY . | 18 22 52 | 18 11 42 |
| | ○ | { 6 2 4 | 5 19 32 | | AUG. . | 17 11 36 | 16 21 49 |
| | AUG. . | { 20 20 26 | 20 21 45 | | SEPT. . | 16 0 20 | 15 10 52 |
| | SEPT. . | 19 9 10 | 19 13 42 | | OCT. . | 15 13 4 | 15 2 59 |
| | OCT. . | 18 21 54 | 19 4 47 | | NOV. . | { 14 1 48 | 13 21 32 |
| | NOV. . | 17 10 38 | 17 18 38 | | ○ | { 28 20 10 | 28 20 23 |
| | DEC. . | 16 23 22 | 17 7 5 | | DEC. . | 13 14 32 | 13 17 8 |
| 30. E. | JAN. . | { 15 12 7 | 15 18 10 | 27. A. | JAN. . | 12 3 17 | 12 12 6 |
| | ○ | { 30 6 29 | 30 8 49 | 23 14 31 | FEB. . | 10 16 1 | 11 4 55 |
| 23 21 4 | FEB. . | 14 0 51 | 14 3 57 | | MAR. . | 12 4 45 | 12 13 44 |
| | MAR. . | 15 13 35 | 15 12 50 | | APRIL | 10 17 29 | 11 5 31 |
| | APRIL | 14 2 19 | 13 21 30 | | MAY . | { 10 6 13 | 10 13 57 |
| | MAY . | 13 15 3 | 13 6 47 | | ○ | { 25 0 35 | 24 20 12 |
| | JUNE . | 12 3 47 | 11 17 37 | | JUNE . | 8 18 57 | 8 20 57 |
| | JULY . | { 11 16 31 | 11 6 33 | | JULY . | 8 7 41 | 8 3 43 |
| | ○ | { 26 10 53 | 26 12 23 | | AUG. . | 6 20 25 | 6 11 16 |
| | AUG. . | 10 5 15 | 9 21 57 | | SEPT. . | 5 9 9 | 4 20 37 |
| | SEPT. . | 8 17 59 | 8 15 2 | | OCT. . | 4 21 53 | 4 8 31 |
| | OCT. . | 8 6 43 | 8 8 52 | | NOV. . | { 3 10 37 | 2 23 13 |
| | NOV. . | 6 19 27 | 7 2 19 | | ○ | { 18 4 59 | 18 11 29 |
| | DEC. . | 6 8 11 | 6 18 19 | | DEC. . | 2 23 21 | 2 16 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|-------------|------------------------------------|------------------------------------|
| | | <i>d. h. m.</i> | <i>d. h. m.</i> | | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B.C. 26. G. March. <i>d. h. m.</i> 23 20 19 | JAN. . | { 1 12 5 31 0 49 | 1 11 30 31 6 27 | B.C. 23. c. March. <i>d. h. m.</i> 23 13 46 | JAN. . | 27 15 59 | 27 10 43 |
| | FEB. . | ... | ... | | FEB. . | 26 4 43 | 25 23 4 |
| | MAR. . | { 1 13 33 31 2 17 | 2 0 0 31 15 1 | | ○ MAR. . | { 12 23 5 27 17 27 | 13 12 30 27 12 15 |
| | APRIL | 29 15 1 | 30 3 8 | | APRIL | 26 6 11 | 26 2 27 |
| | ○ | { 14 9 23 29 3 45 | 14 0 58 29 12 45 | | MAY . | 25 18 55 | 25 17 31 |
| | MAY . | 27 16 29 | 27 20 43 | | JUNE . | 24 7 39 | 24 8 55 |
| | JUNE . | 27 5 13 | 27 4 6 | | JULY . | 23 20 23 | 24 0 1 |
| | AUG. . | 25 17 57 | 25 11 58 | | AUG. . | 22 9 7 | 22 14 18 |
| | SEPT. . | 24 6 41 | 23 21 9 | | ○ | { 6 3 29 20 21 51 | 5 13 46 21 3 36 |
| | OCT. . | 23 19 25 | 23 8 15 | | SEPT. . | 20 10 35 | 20 16 0 |
| | ○ | { 7 13 47 22 8 9 | 7 21 42 21 21 36 | | OCT. . | 18 23 19 | 19 3 42 |
| | NOV. . | 21 20 53 | 21 13 5 | | NOV. . | 18 12 3 | 18 14 47 |
| | DEC. . | | | | DEC. . | | |
| 25. F.E. 23 2 8 | JAN. . | 20 9 38 | 20 6 13 | 22. B. 23 19 35 | JAN. . | 17 0 48 | 17 1 20 |
| | FEB. . | 18 22 22 | 19 0 2 | | FEB. . | 15 13 32 | 15 11 26 |
| | MAR. . | 19 11 6 | 19 17 22 | | ○ | { 2 7 54 17 2 16 | 2 20 28 16 21 32 |
| | APRIL | 17 23 50 | 18 9 11 | | MAR. . | 15 15 0 | 15 8 12 |
| | MAY . | 17 12 34 | 17 22 47 | | APRIL | 15 3 44 | 14 20 8 |
| | JUNE . | 16 1 18 | 16 10 9 | | MAY . | 13 16 23 | 13 9 44 |
| | JULY . | 15 14 2 | 15 19 47 | | JUNE . | 13 5 12 | 13 0 53 |
| | AUG. . | 14 2 46 | 14 4 32 | | JULY . | { 11 17 56 26 12 18 | 11 17 5 26 3 39 |
| | SEPT. . | 12 15 30 | 12 13 22 | | ○ | { 10 6 40 9 19 24 | 10 9 31 10 1 23 |
| | OCT. . | 12 4 14 | 11 22 55 | | SEPT. . | 8 8 8 | 8 16 8 |
| | NOV. . | 10 16 58 | 10 9 39 | | OCT. . | 7 20 52 | 8 5 36 |
| | DEC. . | 10 5 42 | 9 21 44 | | NOV. . | | |
| 24. D. 23 7 57 | JAN. . | 8 18 26 | 8 11 13 | 21. A.G. 23 1 24 | DEC. . | | |
| | FEB. . | 7 7 10 | 7 1 57 | | JAN. . | 6 9 36 | 6 17 11 |
| | MAR. . | { 8 19 54 23 14 16 | 8 17 41 23 22 2 | | FEB. . | 4 22 20 | 5 3 27 |
| | ○ | { 7 8 33 6 21 22 | 7 9 50 7 1 42 | | MAR. . | 5 11 4 | 5 12 32 |
| | APRIL | 5 10 6 | 5 16 32 | | APRIL | 3 23 48 | 3 21 0 |
| | MAY . | 4 22 50 | 5 5 52 | | MAY . | 3 12 32 | 3 5 39 |
| | JUNE . | 3 11 34 | 3 17 44 | | JUNE . | 2 1 16 | 1 15 26 |
| | AUG. . | { 2 0 18 16 18 40 | 2 4 32 16 6 41 | | JULY . | { 1 14 0 31 2 44 | 1 3 14 30 17 27 |
| | SEPT. . | { 1 13 2 31 1 46 | 1 14 53 31 1 19 | | AUG. . | 29 15 28 | 29 9 52 |
| | ○ | { 29 14 30 29 3 14 | 29 12 3 23 23 12 | | SEPT. . | 28 4 12 | 28 3 41 |
| | OCT. . | | | | OCT. . | 27 16 56 | 27 21 41 |
| | NOV. . | | | | NOV. . | 26 5 40 | 26 14 42 |
| | DEC. . | | | | DEC. . | 25 18 24 | 26 5 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 20. F. March. <i>d. h. m.</i> 23 7 12 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 17. C.B. March. <i>d. h. m.</i> 23 0 39 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 9 12 47 | 9 5 52 | | JAN. . | 21 22 19 | 22 0 56 |
| | JAN. . | { 24 7 9 | 24 18 34 | | FEB. . | 20 11 3 | 20 19 11 |
| | FEB. . | 22 19 53 | 23 5 1 | | MAR. . | 20 23 47 | 21 11 27 |
| | MAR. . | 24 8 37 | 24 13 36 | | APRIL | 19 12 31 | 20 0 58 |
| | APRIL | 22 21 21 | 22 21 4 | | ○ | { 4 6 53 | 3 23 5 |
| | MAY . | 22 10 5 | 22 4 22 | | MAY . | { 19 1 15 | 19 11 48 |
| | JUNE . | 20 22 49 | 20 12 32 | | JUNE . | 17 13 59 | 17 20 32 |
| | ○ | { 5 17 11 | 6 0 48 | | JULY . | 17 2 43 | 17 4 12 |
| | JULY . | { 20 11 33 | 19 22 41 | | AUG. . | 15 15 27 | 15 11 53 |
| | AUG. . | 19 0 17 | 18 11 34 | | SEPT. . | 14 4 11 | 13 20 30 |
| | SEPT. . | 17 13 1 | 17 3 23 | | OCT. . | { 13 16 55 | 13 6 42 |
| | OCT. . | 17 1 45 | 16 21 33 | | ○ | { 23 11 17 | 23 17 51 |
| | NOV. . | 15 14 29 | 15 16 48 | | NOV. . | 12 5 39 | 11 18 57 |
| | DEC. . | { 15 3 13 | 15 11 32 | | DEC. . | 11 18 23 | 11 9 20 |
| | ○ | { 29 21 35 | 29 15 33 | | | | |
| 19. E. 23 13 1 | JAN. . | 13 15 53 | 14 4 20 | 16. A. 23 6 28 | JAN. . | 10 7 8 | 10 1 34 |
| | FEB. . | 12 4 42 | 12 18 21 | | FEB. . | 8 19 52 | 8 18 54 |
| | MAR. . | 13 17 26 | 14 5 27 | | MAR. . | 10 8 36 | 10 12 23 |
| | APRIL | 12 6 10 | 12 14 8 | | APRIL | { 8 21 20 | 9 4 55 |
| | MAY . | 11 18 54 | 11 21 18 | | ○ | { 23 15 42 | 23 12 49 |
| | JUNE . | { 10 7 38 | 10 3 58 | | MAY . | 8 10 4 | 8 19 33 |
| | ○ | { 25 2 0 | 25 6 11 | | JUNE . | 6 22 48 | 7 8 10 |
| | JULY . | 9 20 22 | 9 11 14 | | JULY . | 6 11 32 | 6 18 45 |
| | AUG. . | 8 9 6 | 7 20 13 | | AUG. . | 5 0 16 | 5 4 3 |
| | SEPT. . | 6 21 50 | 6 7 49 | | SEPT. . | 3 13 0 | 3 12 53 |
| | OCT. . | 6 10 34 | 5 22 30 | | OCT. . | { 3 1 44 | 2 22 17 |
| | NOV. . | 4 23 18 | 4 16 0 | | ○ | { 17 20 6 | 17 19 14 |
| | DEC. . | { 4 12 2 | 4 11 17 | | NOV. . | 1 14 28 | { 1 8 32 |
| | ○ | { 19 6 24 | 19 6 22 | | DEC. . | { 1 3 12 | { 30 19 57 |
| | | | | | | { 30 15 56 | 30 8 36 |
| 18. D. 23 13 50 | JAN. . | 3 0 46 | 3 6 44 | 15. G. 23 12 17 | JAN. . | 29 4 40 | 28 22 29 |
| | FEB. . | 1 13 30 | 2 0 43 | | FEB. . | 27 17 24 | 27 13 28 |
| | MAR. . | 3 2 14 | 3 16 1 | | MAR. . | 29 6 8 | 29 5 13 |
| | APRIL | 1 14 58 | 2 4 13 | | ○ | { 13 0 30 | 13 5 47 |
| | MAY . | { 1 3 42 | 1 13 40 | | APRIL | { 27 18 52 | 27 21 8 |
| | JUNE . | 30 16 26 | 30 21 14 | | MAY . | 27 7 36 | 27 12 31 |
| | JULY . | 29 5 10 | 29 4 8 | | JUNE . | 25 20 20 | 26 2 44 |
| | AUG. . | 23 17 54 | 23 11 9 | | JULY . | 25 9 4 | 25 15 33 |
| | SEPT. . | 25 19 22 | 25 6 17 | | AUG. . | 23 21 48 | 24 3 5 |
| | OCT. . | 25 8 6 | 24 19 40 | | SEPT. . | 22 10 32 | 22 18 52 |
| | NOV. . | 23 20 50 | 23 11 46 | | ○ | { 7 4 54 | 6 18 54 |
| | DEC. . | 23 9 34 | 23 5 56 | | OCT. . | { 21 23 16 | 22 0 25 |
| | | | | | NOV. . | 20 12 0 | 20 11 7 |
| | | | | | DEC. . | 20 0 44 | 19 22 2 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| B.C. 14. F. March. <i>d. h. m.</i> 23 18 5 | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 11. B. March. <i>d. h. m.</i> 23 11 32 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 18 13 29 | 18 9 15 | | JAN. . | { 15 4 39 | 15 16 45 |
| | FEB. . | 17 2 13 | 16 20 52 | | ○ | { 29 23 1 | 29 17 46 |
| | MAR. . | 18 14 57 | 18 9 16 | | FEB. . | 13 17 23 | 14 4 14 |
| | APRIL | 17 3 41 | 16 22 41 | | MAR. . | 15 6 7 | 15 13 32 |
| | MAY . | 16 16 25 | 16 13 10 | | APRIL | 13 18 51 | 13 21 17 |
| | JUNE . | 15 5 9 | 15 4 23 | | MAY . | 13 7 35 | 13 4 24 |
| | JULY . | 14 17 53 | 14 19 53 | | JUNE . | 11 20 19 | 11 11 54 |
| | AUG. . | 13 6 37 | 13 10 52 | | JULY . | { 11 9 3 | 10 20 54 |
| | SEPT. . | 11 19 21 | 12 0 57 | | ○ | { 26 3 25 | 26 9 51 |
| | OCT. . | 11 8 5 | 11 14 5 | | AUG. . | 9 21 47 | 9 8 22 |
| | NOV. . | 9 20 49 | 10 2 19 | | SEPT. . | 8 10 31 | 7 22 50 |
| | DEC. . | 9 9 33 | 9 13 47 | | OCT. . | 7 23 15 | 7 16 3 |
| | | | | | NOV. . | 6 11 59 | 6 11 4 |
| | | | | | DEC. . | 6 0 43 | 6 6 23 |
| 13. E.D. 22 23 54 | JAN. . | 7 22 18 | 8 0 33 | 10. A. 23 17 21 | JAN. . | 4 13 28 | 5 0 21 |
| | FEB. . | { 6 11 2 | 6 10 40 | | FEB. . | 3 2 11 | 3 15 45 |
| | ○ | { 21 5 24 | 21 16 16 | | MAR. . | 4 14 55 | 5 4 12 |
| | MAR. . | 6 23 46 | 6 20 27 | | APRIL | 3 3 39 | 3 13 54 |
| | APRIL | 5 12 30 | 5 6 23 | | MAY . | 2 16 23 | 2 21 37 |
| | MAY . | 5 1 14 | 4 17 23 | | JUNE . | { 1 5 7 | 1 4 19 |
| | JUNE . | 3 13 53 | 3 6 2 | | ○ | { 30 17 51 | 30 11 9 |
| | JULY . | 3 2 42 | 2 20 25 | | JULY . | 30 6 35 | 29 19 12 |
| | ○ | { 1 15 26 | 1 12 16 | | AUG. . | 28 19 19 | 28 5 28 |
| | AUG. ○ | { 16 9 43 | 16 3 25 | | SEPT. . | 27 8 3 | 26 18 41 |
| | | { 31 4 10 | 31 4 55 | | OCT. . | 26 20 47 | 26 10 55 |
| | SEPT. . | 29 16 54 | 29 21 26 | | NOV. . | 25 9 31 | 25 5 31 |
| | OCT. . | 29 5 33 | 29 13 5 | | ○ | { 10 3 53 | 10 5 27 |
| | NOV. . | 27 18 22 | 28 3 20 | | DEC. . | { 24 22 15 | 25 1 4 |
| | DEC. . | 27 7 6 | 27 15 54 | | | | |
| 12. C. 23 5 43 | JAN. . | 25 19 50 | 26 2 49 | 9. G.F. 22 23 10 | JAN. . | 23 10 59 | 23 19 54 |
| | ○ | { 9 14 12 | 9 16 19 | | FEB. . | 21 23 44 | 22 12 34 |
| | FEB. . | { 24 8 34 | 24 12 17 | | MAR. . | 22 12 23 | 23 2 15 |
| | MAR. . | 25 21 18 | 25 20 45 | | APRIL | 21 1 12 | 21 12 56 |
| | APRIL | 24 10 2 | 24 4 53 | | MAY . | 20 13 56 | 20 21 19 |
| | MAY . | 23 22 46 | 23 13 54 | | ○ | { 4 8 13 | 4 2 42 |
| | JUNE . | 22 11 30 | 22 0 29 | | JUNE . | { 19 2 40 | 19 4 23 |
| | JULY . | 22 0 14 | 21 13 23 | | JULY . | 18 15 24 | 18 11 18 |
| | ○ | { 5 18 36 | 5 20 11 | | AUG. . | 17 4 8 | 16 19 7 |
| | AUG. . | { 20 12 58 | 20 4 56 | | SEPT. . | 15 16 52 | 15 4 42 |
| | SEPT. . | 19 1 42 | 18 22 20 | | OCT. . | 15 5 36 | 14 16 47 |
| | OCT. . | 18 14 26 | 18 16 33 | | NOV. . | { 13 18 20 | 13 7 34 |
| | NOV. . | 17 3 10 | 17 10 30 | | ○ | { 23 12 42 | 23 20 17 |
| | DEC. . | 16 15 54 | 17 2 47 | | DEC. . | 13 7 4 | 13 0 44 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|--------|------------------------------------|------------------------------------|
| B.C. 8. | | <i>d. h. m.</i> | <i>d. h. m.</i> | B.C. 5. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 11 19 49 | 11 19 20 | March. | JAN. . | 9 10 59 | 9 7 59 |
| <i>d. h. m.</i> | FEB. . | 10 8 33 | 10 13 59 | <i>d. h. m.</i> | FEB. . | 7 23 43 | 7 19 9 |
| 23 4 58 | MAR. . | 11 21 17 | 12 7 14 | 22 22 25 | MAR. . | { 8 12 27 | 8 6 49 |
| | APRIL | 10 10 1 | 10 22 6 | ○ | | { 23 6 49 | 23 20 11 |
| | MAY . | { 9 22 45 | 10 10 13 | APRIL | | 7 1 11 | 6 19 24 |
| | ○ | { 24 17 7 | 24 7 56 | MAY . | | 6 13 55 | 6 9 9 |
| | JUNE . | 8 11 29 | 8 19 57 | JUNE . | | 5 2 39 | 4 23 59 |
| | JULY . | 8 0 13 | 8 4 10 | JULY . | | 4 15 23 | 4 15 28 |
| | AUG. . | 6 12 57 | 6 11 53 | AUG. . | | 3 4 7 | 3 6 56 |
| | SEPT. . | 5 1 41 | 4 20 7 | SEPT. . | { | 1 16 51 | 1 21 46 |
| | OCT. . | 4 14 25 | 4 5 37 | ○ | | { 16 11 13 | 15 21 45 |
| | NOV. . | { 3 3 9 | 2 16 53 | OCT. . | { | 1 5 35 | 1 11 41 |
| | ○ | { 17 21 31 | 18 6 5 | | { | 30 18 19 | 31 0 37 |
| | DEC. . | { 2 15 53 | 2 6 10 | NOV. . | | 29 7 3 | 29 12 36 |
| | | ... | 31 21 22 | DEC. . | | 28 19 47 | 28 23 42 |
| 7. | JAN. . | { 1 4 37 | ... | 4. | JAN. . | 27 8 31 | 27 10 0 |
| D. | FEB. . | { 30 17 21 | 30 14 0 | G. | FEB. . | 25 21 15 | 25 19 40 |
| | | ... | ... | | ○ | { 12 15 37 | 13 3 50 |
| 23 10 47 | MAR. . | { 1 6 5 | 1 7 18 | 23 4 14 | MAR. . | { 27 9 59 | 27 5 13 |
| | APRIL | { 30 18 49 | 31 0 15 | APRIL | | 25 22 43 | 25 15 23 |
| | MAY . | 29 7 33 | 29 15 52 | MAY . | | 25 11 27 | 25 2 55 |
| | JUNE . | 28 20 17 | 29 5 34 | JUNE . | | 24 0 11 | 23 16 17 |
| | JULY . | 27 9 1 | 27 17 11 | JULY . | | 23 12 55 | 23 7 31 |
| | AUG. . | 26 21 45 | 27 3 13 | AUG. . | | 22 1 39 | 22 0 8 |
| | SEPT. . | 25 10 29 | 25 12 27 | ○ | { | 5 20 1 | 5 11 44 |
| | SEPT. . | 23 23 13 | 23 21 44 | SEPT. . | { | 20 14 23 | 20 16 59 |
| | OCT. . | 23 11 57 | 23 7 39 | OCT. . | | 20 8 7 | 20 9 27 |
| | NOV. . | 22 0 41 | 21 18 31 | NOV. . | | 18 15 51 | 19 0 39 |
| | DEC. . | 21 13 25 | 21 6 23 | DEC. . | | 18 4 35 | 18 14 11 |
| 6. | JAN. . | 20 2 9 | 19 19 32 | 3. | JAN. . | 16 17 20 | 17 1 55 |
| C. | FEB. . | 18 14 54 | 18 9 44 | F. | FEB. . | 15 6 4 | 15 11 55 |
| 23 16 36 | MAR. . | 20 3 38 | 20 0 50 | 23 10 3 | MAR. . | 16 18 43 | 16 20 37 |
| | ○ | { 3 22 0 | 4 5 50 | APRIL | | 15 7 32 | 15 4 39 |
| | APRIL | { 18 16 22 | 18 16 32 | MAY . | | 14 20 16 | 14 12 54 |
| | MAY . | 18 5 6 | 18 8 12 | JUNE . | | 13 9 0 | 12 22 26 |
| | JUNE . | 16 17 50 | 16 23 7 | JULY . | | 12 21 44 | 12 10 7 |
| | JULY . | 16 6 34 | 16 12 48 | AUG. . | | 11 10 28 | 11 0 24 |
| | AUG. . | 14 19 18 | 15 1 11 | SEPT. . | | 9 23 12 | 9 17 4 |
| | SEPT. . | { 13 8 2 | 13 12 33 | OCT. . | | 9 11 56 | 9 11 16 |
| | ○ | { 28 2 24 | 27 14 21 | NOV. . | | 8 0 40 | 8 5 44 |
| | OCT. . | 12 20 46 | 12 23 27 | DEC. . | | 7 13 24 | 7 28 5 |
| | NOV. . | 11 9 30 | 11 10 12 | | | | |
| | DEC. . | 10 22 14 | 10 21 1 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| B.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| 2. | JAN. . | { 6 2 9 | 6 14 19 | 2. | JAN. . | 2 17 18 | 2 13 54 |
| E. | ○ | { 20 20 31 | 20 14 3 | A. | FEB. . | 1 6 2 | 1 8 32 |
| March. | FEB. . | 4 14 53 | 5 2 59 | March. | MAR. . | 2 18 46 | 3 2 28 |
| <i>d. h. m.</i> | MAR. . | 6 3 37 | 6 13 11 | <i>d. h. m.</i> | APRIL | { 1 7 30 | 1 18 30 |
| 23 15 51 | APRIL | 4 16 21 | 4 21 27 | | ○ | { 15 14 36 | { 1 7 58 |
| | MAY . | 4 5 5 | 4 4 39 | | MAY . | { 30 8 58 | { 15 6 11 |
| | JUNE . | 2 17 49 | 2 11 42 | | JUNE . | 28 21 42 | 29 3 51 |
| | JULY ○ | { 2 6 33 | 1 19 47 | | JULY . | 28 10 26 | 23 11 51 |
| | | { 17 0 55 | 17 7 54 | | AUG. . | 26 23 10 | 26 19 54 |
| | AUG. . | 30 8 1 | 29 18 56 | | SEPT. . | 25 11 54 | 25 4 52 |
| | SEPT. . | 28 20 45 | 28 11 6 | | OCT. . | 25 0 38 | 24 15 20 |
| | OCT. . | 28 9 29 | 28 5 19 | | ○ | { 8 19 0 | 9 2 1 |
| | NOV. . | 26 22 13 | 27 0 48 | | NOV. . | { 23 13 22 | 23 3 37 |
| | DEC. . | 26 10 57 | 26 19 39 | | DEC. . | 23 2 6 | 22 17 45 |
| 1. | ○ | { 10 5 19 | 10 0 14 | 3. | JAN. . | 21 14 50 | 21 9 31 |
| D.C. | JAN. . | { 24 23 41 | 25 12 26 | G. | FEB. . | 20 3 35 | 20 2 21 |
| | FEB. . | 23 12 25 | 24 2 19 | | MAR. . | 21 16 19 | 21 19 22 |
| 22 21 40 | MAR. . | 24 1 9 | 24 13 14 | 23 15 7 | APRIL | 20 5 3 | 20 11 37 |
| | APRIL | 22 13 53 | 22 21 44 | | ○ | { 4 23 25 | 4 20 19 |
| | MAY . | 22 2 37 | 22 4 46 | | MAY . | { 19 17 47 | 20 2 19 |
| | JUNE . | 20 15 21 | 20 11 24 | | JUNE . | 18 6 31 | 18 15 3 |
| | ○ | { 5 9 43 | 5 12 45 | | JULY . | 17 19 15 | 18 1 59 |
| | JULY . | { 20 4 5 | 19 18 45 | | AUG. . | 16 7 59 | 16 11 46 |
| | AUG. . | 18 16 49 | 18 3 52 | | SEPT. . | 14 20 43 | 14 21 10 |
| | SEPT. . | 17 5 33 | 16 15 37 | | OCT. . | { 14 9 27 | 14 6 55 |
| | OCT. . | 16 18 17 | 16 6 26 | | ○ | { 29 3 49 | 29 2 59 |
| | NOV. . | 15 7 1 | 14 23 59 | | NOV. . | 12 22 11 | 12 17 24 |
| | DEC. . | { 14 19 45 | 14 19 14 | | DEC. . | 12 10 55 | 12 4 47 |
| | ○ | { 29 14 7 | 29 15 17 | 4. | JAN. . | 10 23 40 | 10 17 9 |
| A.D. | JAN. . | 13 8 30 | 13 14 35 | F.E. | FEB. . | 9 12 24 | 9 6 30 |
| 1. | FEB. . | 11 21 14 | 12 8 25 | | MAR. . | 10 1 8 | 9 20 52 |
| B. | MAR. . | 13 9 58 | 13 23 32 | 22 20 56 | APRIL | { 8 13 52 | 8 12 4 |
| 23 3 29 | APRIL | 11 22 42 | 12 11 37 | | ○ | { 23 8 14 | 23 13 27 |
| | MAY . | 11 11 26 | 11 21 1 | | MAY . | 8 2 36 | 8 3 40 |
| | JUNE . | { 10 0 10 | 10 4 39 | | JUNE . | 6 15 20 | 6 19 0 |
| | ○ | { 24 18 32 | 24 13 24 | | JULY . | 6 4 4 | 6 9 30 |
| | JULY . | 9 12 54 | 9 11 36 | | AUG. . | 4 16 48 | 4 22 45 |
| | AUG. . | 8 1 38 | 7 18 56 | | SEPT. . | 3 5 32 | 3 10 53 |
| | SEPT. . | 6 14 22 | 6 3 40 | | OCT. . | { 2 18 16 | 2 22 14 |
| | OCT. . | 6 3 6 | 5 14 33 | | ○ | { 17 12 38 | 17 2 43 |
| | NOV. . | 4 15 50 | 4 4 1 | | NOV. . | { 1 7 0 | 1 9 13 |
| | DEC. . | 4 4 34 | 3 20 1 | | | { 30 19 44 | 30 20 5 |
| | | | | | DEC. . | 30 8 28 | 30 6 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 5 D. March. d. h. m. 23 2 44 | | d. h. m. | d. h. m. | A.D. 8. A.G. March. d. h. m. 22 20 11 | | d. h. m. | d. h. m. |
| | JAN. . | 28 21 13 | 28 17 47 | | JAN. . | 26 12 22 | 27 1 9 |
| | FEB. . | 27 9 57 | 27 4 53 | | ○ | { 10 6 44 | 10 1 36 |
| | MAR. . | 28 22 41 | 28 16 39 | | FEB. . | { 25 1 6 | 25 12 27 |
| | APRIL | 27 11 25 | 27 5 33 | | MAR. . | 25 13 50 | 25 21 27 |
| | MAY . | 27 0 9 | 26 19 42 | | APRIL | 24 2 34 | 24 4 56 |
| | JUNE . | 25 12 53 | 25 10 55 | | MAY . | 23 15 18 | 23 11 50 |
| | JULY . | 25 1 37 | 25 2 37 | | JUNE . | 22 4 2 | 21 19 13 |
| | AUG. . | 23 14 21 | 23 18 4 | | JULY . | 21 16 46 | 21 4 12 |
| | SEPT. . | 22 3 5 | 22 8 47 | | ○ | { 5 11 8 | 5 17 13 |
| | OCT. . | 21 15 49 | 21 22 29 | | AUG. . | { 20 5 30 | 19 15 44 |
| | NOV. . | 20 4 33 | 20 11 8 | | SEPT. . | 18 18 14 | 18 6 20 |
| | DEC. . | 19 17 17 | 19 22 44 | | OCT. . | 18 6 58 | 17 23 45 |
| | | | | | NOV. . | 16 19 42 | 16 18 58 |
| | | | | | DEC. . | 16 8 26 | 16 14 23 |
| 6. C. 23 8 33 | JAN. . | 18 6 1 | 18 9 19 | 9. F. 23 2 0 | JAN. . | 14 21 11 | 15 8 23 |
| | FEB. . | 13 18 45 | 16 19 4 | | FEB. . | 13 9 55 | 13 23 45 |
| | ○ | { 3 18 7 | 3 23 38 | | MAR. . | 14 22 39 | 15 12 1 |
| | MAR. . | { 18 7 29 | 18 4 21 | | APRIL | 13 11 23 | 13 21 32 |
| | APRIL | 16 20 13 | 16 13 52 | | MAY . | 13 0 7 | 13 5 7 |
| | MAY . | 16 8 57 | 16 0 25 | | JUNE . | 11 12 51 | 11 11 47 |
| | JUNE . | 14 21 41 | 14 12 42 | | JULY . | 11 1 35 | 10 18 41 |
| | JULY . | 14 10 25 | 14 3 2 | | AUG. . | 9 14 19 | 9 2 52 |
| | AUG. . | { 12 23 9 | 12 19 6 | | SEPT. . | 8 3 3 | 7 13 19 |
| | ○ | { 27 17 31 | 27 11 26 | | OCT. . | 7 15 47 | 7 2 40 |
| | SEPT. . | 11 11 53 | 11 12 10 | | NOV. . | 6 4 31 | 5 18 57 |
| | OCT. . | 11 0 37 | 11 5 16 | | DEC. . | { 5 17 15 | 5 13 30 |
| | NOV. . | 9 13 21 | 9 21 25 | | ○ | { 20 11 37 | 20 14 24 |
| | DEC. . | 9 2 5 | 9 11 58 | | | | |
| 7. B. 23 14 22 | JAN. . | 7 14 50 | 8 0 38 | 10. E. 23 7 49 | JAN. . | 4 5 59 | 4 8 56 |
| | FEB. . | { 6 3 34 | 6 11 22 | | FEB. . | 2 18 43 | 3 3 36 |
| | ○ | { 20 21 56 | 20 23 42 | | MAR. . | 4 7 27 | 4 20 4 |
| | MAR. . | 7 16 18 | 7 20 29 | | APRIL | 2 20 11 | 3 9 36 |
| | APRIL | 6 5 2 | 6 4 33 | | MAY . | { 2 8 55 | 2 20 14 |
| | MAY . | 5 17 46 | 5 12 24 | | ○ | { 31 21 39 | { 1 4 89 |
| | JUNE . | 4 6 30 | 3 21 1 | | ○ | { 15 16 1 | { 15 9 14 |
| | JULY . | 3 19 14 | 3 7 26 | | JUNE . | { 30 10 23 | { 30 11 52 |
| | | 2 7 58 | 1 20 24 | | JULY . | 29 23 7 | 29 19 0 |
| | AUG. ○ | { 17 2 20 | 17 4 0 | | AUG. . | 28 11 51 | 28 8 6 |
| | | { 31 20 42 | 31 12 3 | | SEPT. . | 27 0 35 | 26 12 57 |
| | SEPT. . | 30 9 26 | 30 5 43 | | OCT. . | 26 13 19 | 26 1 10 |
| | OCT. . | 29 22 10 | 30 0 29 | | NOV. . | 25 2 3 | 24 15 54 |
| | NOV. . | 28 10 54 | 28 18 43 | | ○ | { 9 20 25 | 10 5 5 |
| | DEC. . | 27 23 38 | 28 11 12 | | DEC. . | { 24 14 47 | 24 8 50 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 11. D. March. <i>d. h. m.</i> 23 13 37 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 14. G. March. <i>d. h. m.</i> 23 7 3 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 3 32 | 23 3 6 | | JAN. . | 19 18 42 | 19 16 40 |
| | FEB. . | 21 16 16 | 21 21 20 | | FEB. . | 18 7 26 | 18 3 21 |
| | MAR. . | 23 5 0 | 23 14 18 | | MAR. . | 19 20 10 | 19 14 27 |
| | APRIL . | 21 17 44 | 22 5 3 | | ○ | { 3 14 32 | 4 3 42 |
| | MAY . | 21 6 28 | 21 17 13 | | APRIL . | { 18 8 54 | 18 2 26 |
| | ○ | { 5 0 50 | 4 14 52 | | MAY . | 17 21 38 | 17 15 46 |
| | JUNE . | 19 19 12 | 20 3 9 | | JUNE . | 16 10 22 | 16 6 25 |
| | JULY . | 19 7 56 | 19 11 40 | | JULY . | 15 23 6 | 15 22 3 |
| | AUG. . | 17 20 40 | 17 19 47 | | AUG. . | 14 11 50 | 14 13 53 |
| | SEPT. . | 16 9 24 | 16 4 24 | | SEPT. . | { 13 0 34 | 13 5 19 |
| | OCT. . | 15 22 8 | 15 14 12 | | ○ | { 27 18 56 | 27 5 52 |
| | NOV. . | { 14 10 52 | 14 1 36 | | OCT. . | 12 13 18 | 12 19 52 |
| | ○ | 29 5 14 | 29 14 26 | | NOV. . | 11 2 2 | 11 9 16 |
| | DEC. . | 13 23 36 | 13 14 46 | | DEC. . | 10 14 46 | 10 21 30 |
| 12. C.H. 22 19 26 | JAN. . | 12 12 21 | 12 5 36 | 15. F. 23 12 52 | JAN. . | 9 3 31 | 9 8 33 |
| | FEB. . | 11 1 5 | 10 21 41 | | FEB. . | 7 16 15 | 7 18 33 |
| | MAR. . | 11 13 49 | 11 14 27 | | MAR. . | { 9 4 59 | 9 3 46 |
| | APRIL . | 10 2 33 | 10 7 1 | | ○ | { 23 23 21 | 24 11 1 |
| | MAY . | 9 15 17 | 9 22 31 | | APRIL . | 7 17 43 | 7 12 50 |
| | JUNE . | 8 4 1 | 8 12 17 | | MAY . | 7 6 27 | 6 22 32 |
| | JULY . | 7 16 45 | 8 0 16 | | JUNE . | 5 19 11 | 5 9 43 |
| | AUG. . | 6 5 29 | 6 10 46 | | JULY . | 5 7 55 | 4 22 58 |
| | SEPT. . | 4 18 13 | 4 20 31 | | AUG. . | 3 20 39 | 3 14 17 |
| | OCT. . | 4 6 57 | 4 6 15 | | SEPT. . | { 2 9 23 | 2 7 9 |
| | NOV. . | 2 19 41 | 2 16 29 | | ○ | { 17 3 45 | 16 20 0 |
| | DEC. . | { 2 8 25 | 2 3 26 | | OCT. . | { 1 22 7 | 2 0 36 |
| | | 81 21 10 | 81 15 13 | | | 81 10 51 | 81 17 34 |
| | | | | | NOV. . | 29 23 35 | 30 9 11 |
| | | | | | DEC. . | 29 12 19 | 29 22 53 |
| 13. A. 23 1 15 | JAN. . | 30 9 54 | 30 3 49 | 16. E.D. 22 13 41 | JAN. . | 23 1 4 | 23 10 31 |
| | FEB. . | 28 22 38 | 28 17 23 | | FEB. . | 26 13 48 | 26 20 14 |
| | MAR. . | 30 11 22 | 30 7 54 | | MAR. . | 27 2 32 | 27 4 34 |
| | ○ | { 14 5 44 | 14 13 33 | | APRIL . | 25 15 16 | 25 12 12 |
| | APRIL . | { 29 0 6 | 28 28 9 | | MAY . | 25 4 0 | 24 20 9 |
| | MAY . | 28 12 50 | 28 14 33 | | JUNE . | 23 16 44 | 23 5 29 |
| | JUNE . | 27 1 34 | 27 5 42 | | JULY . | 23 5 23 | 22 17 5 |
| | JULY . | 26 14 18 | 26 19 48 | | AUG. . | 21 18 12 | 21 7 29 |
| | AUG. . | 25 3 2 | 25 8 44 | | SEPT. . | 20 6 56 | 20 0 25 |
| | SEPT. . | 23 15 46 | 23 20 43 | | OCT. . | 19 19 40 | 19 18 59 |
| | ○ | { 8 10 8 | 7 22 10 | | NOV. . | 18 8 24 | 18 13 47 |
| | OCT. . | { 23 4 30 | 23 8 5 | | DEC. . | 17 21 8 | 18 7 24 |
| | NOV. . | 21 17 14 | 21 19 8 | | | | |
| | DEC. . | 21 5 58 | 21 5 59 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 17. C. March. d. h. m. 23 0 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 20. G.F. March. d. h. m. 22 17 56 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 16 9 52 | 16 22 41 | | JAN. . | 14 1 2 | 13 21 51 |
| | ○ | { 31 4 14 | 30 22 9 | | FEB. . | 12 13 46 | 12 16 1 |
| | FEB. . | 14 22 36 | 15 11 13 | | MAR. . | 13 2 30 | 13 9 36 |
| | MAR. . | 16 11 20 | 16 21 10 | | APRIL | 11 15 14 | 12 1 27 |
| | APRIL | 15 0 4 | 15 5 11 | | MAY . | 11 3 58 | 11 14 53 |
| | MAY . | 14 12 48 | 14 12 9 | | JUNE . | 9 16 42 | 10 1 56 |
| | JUNE . | 13 1 32 | 12 19 3 | | JULY . | 9 5 26 | 9 11 13 |
| | JULY . | { 12 14 16 | 12 3 6 | | AUG. . | 7 18 10 | 7 19 36 |
| | ○ | { 27 8 38 | 27 15 3 | | SEPT. . | 6 6 54 | 6 4 4 |
| | AUG. . | 11 3 0 | 10 13 19 | | OCT. . | 5 19 38 | 5 13 25 |
| | SEPT. . | 9 15 44 | 9 2 26 | | NOV. . | { 4 8 22 | 4 0 5 |
| | OCT. . | 9 4 23 | 8 18 36 | | ○ | { 19 2 44 | 19 10 15 |
| | NOV. . | 7 17 12 | 7 13 11 | | DEC. . | 3 21 6 | 3 12 19 |
| | DEC. . | 7 5 56 | 7 8 46 | | | | |
| 18. B. | JAN. . | { 5 18 41 | 6 3 40 | 21. E. | JAN. . | { 2 9 51 | 2 2 11 |
| | ○ | { 20 13 3 | 20 8 50 | | FEB. . | ... | ... |
| | FEB. . | 4 7 25 | 4 20 24 | 22 23 45 | MAR. . | 2 11 19 | 2 9 42 |
| 23 6 19 | MAR. . | 5 20 9 | 6 10 9 | | APRIL | { 1 0 3 | 1 2 15 |
| | APRIL | 4 8 53 | 4 20 53 | | ○ | { 30 12 47 | 30 18 14 |
| | MAY . | 3 21 37 | 4 5 15 | | JUNE . | { 15 7 9 | 15 3 46 |
| | JUNE . | 2 10 21 | 2 12 13 | | MAY . | { 30 1 31 | 30 8 57 |
| | JULY ○ | { 1 23 5 | 1 18 54 | | JUNE . | 28 14 15 | 28 21 57 |
| | | { 16 17 27 | 16 19 27 | | JULY . | 28 2 59 | 28 9 19 |
| | | { 31 11 49 | 31 2 22 | | AUG. . | 26 15 43 | 26 19 37 |
| | AUG. . | 30 0 33 | 29 11 42 | | SEPT. . | 25 4 27 | 25 5 32 |
| | SEPT. . | 28 13 17 | 27 23 38 | | OCT. . | 24 17 11 | 24 15 41 |
| | OCT. . | 28 2 1 | 27 14 32 | | ○ | { 8 11 33 | 8 10 52 |
| | NOV. . | 26 14 45 | 26 8 4 | | NOV. . | { 23 5 55 | 23 2 20 |
| | DEC. . | 26 3 29 | 26 3 11 | | DEC. . | 22 18 39 | 22 13 38 |
| 19. A. | ○ | { 9 21 51 | 10 0 8 | 22. D. | JAN. . | 21 7 23 | 21 1 37 |
| | JAN. . | { 24 16 13 | 24 22 19 | 23 5 34 | FEB. . | 19 20 7 | 19 14 24 |
| | FEB. . | 23 4 57 | 23 15 55 | | MAR. . | 21 8 51 | 21 4 9 |
| 23 12 8 | MAR. . | 24 17 41 | 25 6 52 | | APRIL | 19 21 35 | 19 18 50 |
| | APRIL | 23 6 25 | 23 18 53 | | ○ | { 4 15 57 | 4 20 59 |
| | MAY . | 22 19 9 | 23 4 18 | | MAY . | { 19 10 19 | 19 10 8 |
| | JUNE . | 21 7 53 | 21 12 1 | | JUNE . | 17 23 3 | 18 1 30 |
| | ○ | { 6 2 15 | 5 19 56 | | JULY . | 17 11 47 | 17 16 16 |
| | JULY . | { 20 20 37 | 20 19 11 | | AUG. . | 16 0 31 | 16 6 3 |
| | AUG. . | 19 9 21 | 19 2 51 | | SEPT. . | 14 13 15 | 14 18 47 |
| | SEPT. . | 17 22 5 | 17 11 53 | | OCT. . | { 14 1 59 | 14 6 42 |
| | OCT. . | 17 10 49 | 16 22 58 | | ○ | { 28 20 21 | 28 10 38 |
| | NOV. . | 15 23 33 | 15 12 27 | | NOV. . | 12 14 43 | 12 18 4 |
| | DEC. . | 15 12 17 | 15 4 17 | | DEC. . | 12 3 27 | 12 5 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 23. C. March. d. h. m. 23 11 28 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 26. F. March. d. h. m. 23 4 49 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 10 16 12 | 10 15 44 | | JAN. . | 7 7 22 | 7 19 31 |
| | FEB. . | 9 4 56 | 9 2 12 | | FEB. . | { 5 20 6 | 6 9 25 |
| | MAR. . | 10 17 40 | 10 12 45 | | ○ | { 20 14 28 | 20 9 20 |
| | APRIL | 9 6 24 | 8 23 56 | | MAR. . | 7 8 50 | 7 20 31 |
| | MAY . | 8 19 8 | 8 12 19 | | APRIL | 5 21 34 | 6 5 16 |
| | JUNE . | 7 7 52 | 7 2 13 | | MAY . | 5 10 18 | 5 12 30 |
| | JULY . | 6 20 36 | 6 17 26 | | JUNE . | 3 23 2 | 3 19 14 |
| | AUG. . | 5 9 20 | 5 9 23 | | JULY . | 3 11 46 | 3 2 34 |
| | SEPT. . | 3 22 4 | 4 1 22 | | | { 2 0 30 | 1 11 37 |
| | OCT. . | 3 10 43 | 3 16 43 | | AUG. ○ | { 16 18 52 | 17 0 42 |
| | NOV. . | 1 23 32 | 2 6 58 | | | { 31 13 14 | 30 23 16 |
| | DEC. . | { 1 12 16 | 1 19 56 | | SEPT. . | 30 1 58 | 29 14 1 |
| | | { 31 1 0 | 31 7 35 | | OCT. . | 29 14 42 | 29 7 36 |
| | | | | | NOV. . | 28 3 26 | 28 2 56 |
| | | | | | DEC. . | 27 16 10 | 27 22 24 |
| 24. B.A. 22 17 12 | JAN. . | 29 13 45 | 29 18 0 | 27. E. 23 10 33 | JAN. . | 26 4 55 | 26 16 20 |
| | FEB. . | 23 2 29 | 23 3 22 | | FEB. . | 24 17 39 | 25 7 33 |
| | ○ | { 13 20 51 | 14 6 52 | | MAR. . | 26 6 23 | 26 19 41 |
| | MAR. . | { 23 15 13 | 23 12 10 | | APRIL | 24 19 7 | 25 5 3 |
| | APRIL | 27 3 57 | 26 21 12 | | MAY . | 24 7 51 | 24 12 33 |
| | MAY . | 26 16 41 | 26 7 22 | | JUNE . | 22 20 35 | 22 19 15 |
| | JUNE . | 25 5 25 | 24 19 26 | | JULY . | 22 9 19 | 22 2 17 |
| | JULY . | 24 13 9 | 24 9 45 | | AUG. . | 20 22 3 | 20 10 41 |
| | AUG. . | 23 6 53 | 23 2 5 | | SEPT. . | 19 10 47 | 18 21 19 |
| | ○ | { 7 1 15 | 6 19 37 | | OCT. . | 18 23 31 | 18 10 47 |
| | SEPT. . | { 21 19 37 | 21 19 35 | | NOV. . | 17 12 15 | 17 3 6 |
| | OCT. . | 21 8 21 | 21 13 11 | | DEC. . | { 17 0 59 | 16 21 32 |
| | NOV. . | 19 21 5 | 20 5 48 | | ○ | { 31 19 21 | 31 23 19 |
| | DEC. . | 19 9 49 | 19 20 37 | | | | |
| 25. G. 22 23 1 | JAN. . | 17 22 33 | 18 9 15 | 28. D.C. 22 16 27 | JAN. . | 15 13 43 | 15 16 44 |
| | FEB. . | 16 11 17 | 16 19 46 | | FEB. . | 14 2 27 | 14 11 8 |
| | ○ | { 3 5 39 | 3 6 53 | | MAR. . | 14 15 11 | 15 3 25 |
| | MAR. . | { 18 0 1 | 18 4 32 | | APRIL | 13 3 55 | 13 16 51 |
| | APRIL | 16 12 45 | 16 12 14 | | MAY . | 12 16 39 | 13 3 27 |
| | MAY . | 16 1 29 | 15 19 44 | | JUNE . | { 11 5 23 | 11 11 57 |
| | JUNE . | 14 14 13 | 14 4 8 | | ○ | { 25 23 45 | 25 15 49 |
| | JULY . | 14 2 57 | 13 14 28 | | JULY . | 10 18 7 | 10 19 24 |
| | AUG. . | { 12 15 41 | 12 3 23 | | AUG. . | 9 6 51 | 9 2 50 |
| | ○ | { 27 10 3 | 27 11 57 | | SEPT. . | 7 19 35 | 7 11 14 |
| | SEPT. . | 11 4 25 | 10 19 18 | | OCT. . | 7 8 19 | 6 21 21 |
| | OCT. . | 10 17 9 | 10 13 21 | | NOV. . | 5 21 3 | 5 9 41 |
| | NOV. . | 9 5 53 | 9 8 24 | | DEC. . | { 5 9 47 | 5 0 20 |
| | DEC. . | 8 18 37 | 9 2 54 | | ○ | { 20 4 9 | 20 13 51 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--------|------------------------------------|------------------------------------|---|--------|------------------------------------|------------------------------------|
| A.D. 29. B. March. d. h. m. 22 22 16 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 32. F.E. March. d. h. m. 22 15 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 3 22 32 | 3 16 53 | | JAN. . | { 1 13 41 | 1 14 53 |
| | FEB. . | 2 11 16 | 2 10 44 | | FEB. . | { 31 2 25 | 31 1 16 |
| | MAR.. | 4 0 0 | 4 4 34 | | MAR.. | 29 15 10 | 29 11 23 |
| | APRIL | 2 12 44 | 2 21 15 | | MAR.. | 30 8 54 | 29 21 58 |
| | MAY . | { 2 1 28 | 2 11 53 | | ○ | { 13 22 16 | 14 11 4 |
| | ○ | { 31 14 12 | { 1 0 9 | | APRIL | { 28 16 38 | 28 9 27 |
| | JUNE . | { 15 8 34 | { 14 21 52 | | MAY . | 28 5 22 | 27 22 24 |
| | JULY . | { 30 2 56 | { 30 10 21 | | JUNE . | 26 18 6 | 26 12 56 |
| | AUG. . | 29 15 40 | 29 19 15 | | JULY . | 26 6 50 | 26 4 43 |
| | SEPT.. | 28 4 24 | 28 3 43 | | AUG. . | 24 19 34 | 24 21 0 |
| | OCT. . | 26 17 8 | 26 12 50 | | SEPT.. | 23 8 18 | 23 13 1 |
| | NOV. . | 26 5 52 | 25 22 56 | | ○ | { 8 2 40 | 7 14 10 |
| | ○ | { 9 12 58 | 9 22 49 | | OCT. . | { 22 21 2 | 23 4 8 |
| | DEC. . | { 24 7 20 | 23 23 21 | | NOV. . | 21 9 46 | 21 17 58 |
| | | | | | DEC. . | 20 22 30 | 21 6 21 |
| 30. A. 23 4 5 | JAN. . | 22 20 5 | 22 13 44 | 33. D. 22 21 31 | JAN. . | 19 11 14 | 19 17 19 |
| | FEB. . | 21 8 49 | 21 5 16 | | FEB. . | 17 23 58 | 18 2 58 |
| | MAR.. | 22 21 33 | 22 21 30 | | MAR.. | 19 12 42 | 19 11 45 |
| | APRIL | 21 10 17 | 21 13 41 | | ○ | { 3 7 4 | 3 13 4 |
| | MAY . | 20 23 1 | 21 5 5 | | APRIL | { 18 1 26 | 17 20 20 |
| | ○ | { 4 17 23 | 4 11 4 | | MAY . | 17 14 10 | 17 5 37 |
| | JUNE . | { 19 11 45 | 19 19 2 | | JUNE . | 16 2 54 | 15 16 32 |
| | JULY . | 19 0 29 | 19 7 23 | | JULY . | 15 15 38 | 15 5 41 |
| | AUG. . | 17 13 13 | 17 18 23 | | AUG. . | 14 4 22 | 13 21 9 |
| | SEPT.. | 16 1 57 | 16 4 42 | | SEPT.. | { 12 17 6 | 12 14 22 |
| | OCT. . | 15 14 41 | 15 14 54 | | ○ | { 27 11 28 | 27 4 23 |
| | NOV. . | 14 3 25 | 14 1 23 | | OCT. . | 12 5 50 | 12 8 18 |
| | DEC. . | 13 16 9 | 13 12 23 | | NOV. . | 10 18 34 | 11 1 46 |
| | | | | | DEC. . | 10 7 18 | 10 17 48 |
| 31. G. 23 9 54 | JAN. . | 12 4 53 | 11 23 51 | 34. C. 23 3 20 | JAN. . | 8 29 8 | 9 7 30 |
| | FEB. . | 10 17 37 | 10 11 53 | | FEB. . | 7 8 47 | 7 18 59 |
| | MAR.. | 12 6 21 | 12 0 55 | | MAR.. | 8 21 31 | 9 4 24 |
| | APRIL | { 10 19 5 | 10 14 51 | | APRIL | 7 10 15 | 7 12 22 |
| | ○ | { 25 13 27 | 25 21 7 | | MAY . | 6 22 59 | 6 19 41 |
| | MAY . | 10 7 49 | 10 5 43 | | JUNE . | 5 11 43 | 5 8 23 |
| | JUNE . | 8 20 33 | 8 21 4 | | JULY . | 5 0 27 | 4 12 35 |
| | JULY . | 8 9 17 | 8 12 18 | | AUG. . | 3 18 11 | 3 0 13 |
| | AUG. . | 6 22 1 | 7 2 50 | | SEPT.. | 2 1 55 | 1 14 42 |
| | SEPT.. | 5 10 45 | 5 16 23 | | ○ | { 1 14 39 | 1 7 53 |
| | OCT. . | { 4 23 29 | 5 4 53 | | OCT. . | { 31 8 23 | 31 2 47 |
| | ○ | { 19 17 51 | 19 6 8 | | NOV. . | 29 16 7 | 29 21 52 |
| | NOV. . | 3 12 13 | 3 16 43 | | DEC. . | 29 4 51 | 29 15 33 |
| | DEC. . | 3 0 57 | 3 4 5 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|-----------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 35. B. March. d. h. m. 23 9 9 | | d. h. m. | d. h. m. | A.D. 38. E. March. d. h. m. 23 2 35 | | d. h. m. | d. h. m. |
| | JAN. . | 27 17 36 | 23 6 56 | | JAN. . | 24 8 46 | 24 5 40 |
| | ○ | { 11 11 58 | 11 6 8 | | FEB. . | 22 21 30 | 22 23 24 |
| | FEB. . | { 26 6 20 | 26 19 19 | | MAR. . | 24 10 14 | 24 16 36 |
| | MAR. . | 27 19 4 | 23 5 3 | | APRIL | 22 22 58 | 23 8 16 |
| | APRIL | 26 7 48 | 26 12 48 | | MAY . | 22 11 42 | 22 21 44 |
| | MAY . | 25 20 32 | 25 19 36 | | JUNE . | 21 0 26 | 21 9 0 |
| | JUNE . | 24 9 16 | 24 2 28 | | JULY . | 20 13 10 | 20 18 38 |
| | JULY . | 23 22 0 | 23 10 33 | | AUG. . | 19 1 54 | 19 3 28 |
| | ○ | { 7 16 22 | 7 22 17 | | SEPT. . | 17 14 33 | 17 12 23 |
| | AUG. . | { 22 10 44 | 21 20 52 | | OCT. . | 17 3 22 | 16 22 4 |
| | SEPT. . | 20 23 28 | 20 10 8 | | NOV. . | { 15 16 6 | 15 8 55 |
| | OCT. . | 20 12 12 | 20 2 28 | | ○ | { 30 10 28 | 30 18 29 |
| | NOV. . | 19 0 56 | 18 21 8 | | DEC. . | 15 4 50 | 14 21 4 |
| | DEC. . | 18 13 40 | 18 16 45 | | | | |
| 36. A.G. | JAN. . | { 17 2 24 | 17 11 35 | 39. D. | JAN. . | 13 17 34 | 13 10 33 |
| | ○ | { 31 20 46 | 31 17 20 | 23 8 24 | FEB. . | 12 6 18 | 12 1 15 |
| 22 14 58 | FEB. . | 15 15 8 | 16 4 11 | | MAR. . | 13 19 2 | 13 16 54 |
| | MAR. . | 16 3 52 | 16 17 47 | | APRIL | 12 7 46 | 12 9 0 |
| | APRIL | 14 16 36 | 15 4 22 | | MAY . | { 11 20 30 | 12 0 47 |
| | MAY . | 14 5 20 | 14 12 39 | | ○ | { 26 14 52 | 26 11 10 |
| | JUNE . | 12 18 4 | 12 19 38 | | JUNE . | 10 9 14 | 10 15 32 |
| | JULY . | { 12 6 48 | 12 2 26 | | JULY . | 9 21 58 | 10 4 50 |
| | ○ | { 27 1 10 | 27 2 10 | | AUG. . | 8 10 42 | 8 16 43 |
| | AUG. . | 10 19 32 | 10 10 8 | | SEPT. . | 6 23 26 | 7 3 34 |
| | SEPT. . | 9 8 16 | 8 19 39 | | OCT. . | 6 12 10 | 6 14 0 |
| | OCT. . | 8 21 0 | 8 7 46 | | NOV. . | { 5 0 54 | 5 0 30 |
| | NOV. . | 7 9 44 | 6 22 43 | | ○ | { 19 19 16 | 19 18 47 |
| | DEC. . | 6 22 28 | 6 16 10 | | DEC. . | 4 13 38 | 4 11 18 |
| 37. F. | JAN. . | { 5 11 13 | 5 11 4 | 40. C.B. | JAN. . | 3 2 22 | 2 22 25 |
| | ○ | { 20 5 35 | 20 8 55 | 22 14 13 | FEB. . | 1 15 7 | 1 10 1 |
| 22 20 47 | FEB. . | 3 23 57 | 4 5 55 | | MAR. . | { 2 3 51 | 1 22 12 |
| | MAR. . | 5 12 41 | 5 23 16 | | ○ | { 31 16 35 | 31 11 21 |
| | APRIL | 4 1 25 | 4 14 5 | | APRIL | 30 5 19 | 30 1 32 |
| | MAY . | 3 14 9 | 4 2 2 | | ○ | { 14 23 41 | 15 4 28 |
| | JUNE . | 2 2 53 | 2 11 32 | | MAY . | { 29 18 3 | 29 16 35 |
| | JULY ○ | { 1 15 37 | 1 19 27 | | JUNE . | 28 6 47 | 28 8 0 |
| | | { 16 9 59 | 16 2 35 | | JULY . | 27 19 31 | 27 23 8 |
| | | { 31 4 21 | 31 2 55 | | AUG. . | 26 8 15 | 26 13 23 |
| | AUG. . | 29 19 5 | 29 10 54 | | SEPT. . | 24 20 59 | 25 2 49 |
| | SEPT. . | 28 5 49 | 27 20 15 | | OCT. . | 24 9 43 | 24 15 15 |
| | OCT. . | 27 18 33 | 27 7 31 | | ○ | { 8 4 5 | 7 18 43 |
| | NOV. . | 26 7 17 | 25 21 0 | | NOV. . | { 22 22 27 | 23 2 58 |
| | DEC. . | 25 20 1 | 25 12 33 | | DEC. . | 22 11 11 | 22 14 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month | Mean New Moon (^o Full Rel.) | True New Moon. (^o Full Rel.) | Mean Vernal Equinox. | Month | Mean New Moon (^o Full Rel.) | True New Moon. (^o Full Rel.) |
|-----------------------------------|---------|---|--|----------------------------|---------|---|--|
| A.D. 41. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. d. h. m. | JAN. . | 20 23 56 | 21 0 30 | 44. | JAN. . | 18 15 5 | 19 3 42 |
| 22 20 2 | FEB. . | 10 12 40 | 10 10 31 | March | FEB. . | 17 3 43 | 17 17 31 |
| | MAR. . | 21 1 21 | 20 20 30 | d. h. m. | March | 17 22 11 | 2 10 57 |
| | APRIL . | 19 11 8 | 19 7 9 | 22 13 20 | Mar. | 17 16 33 | 16 1 24 |
| | MAY . | 19 2 52 | 18 19 6 | | April . | 16 5 17 | 16 12 55 |
| | JUNE . | 17 15 30 | 17 8 45 | | May . | 15 18 1 | 15 20 0 |
| | JULY . | 17 4 20 | 17 0 1 | | June . | 14 6 45 | 14 2 30 |
| | AUG. . | 15 17 4 | 15 16 18 | | July . | 13 19 29 | 13 10 1 |
| | SEPT. . | 11 5 48 | 11 8 18 | | Aug. . | 12 8 13 | 11 19 9 |
| | OCT. . | 13 18 32 | 14 0 45 | | Sept. . | 11 27 23 | 11 8 16 |
| | NOV. . | 12 7 16 | 12 15 29 | | Oct. . | 10 20 57 | 10 6 58 |
| | DEC. . | 11 20 0 | 12 4 41 | | Nov. . | 10 9 41 | 9 21 52 |
| | | | | | Dec. . | 9 22 25 | 9 15 32 |
| 42. | JAN. . | 10 8 41 | 10 16 21 | 45. | JAN. . | 6 28 51 | 7 6 17 |
| g. | FEB. . | 8 21 24 | 9 2 32 | c. | FEB. . | 5 12 34 | 6 0 6 |
| 23 1 51 | MAR. . | 10 10 12 | 10 11 30 | 22 10 17 | Mar. | 7 1 22 | 7 15 11 |
| | ○ | 25 4 54 | 25 13 54 | | April . | 5 14 6 | 6 3 9 |
| | APRIL . | 8 22 50 | 8 19 50 | | May . | 5 2 50 | 5 12 27 |
| | MAY . | 8 11 40 | 8 4 27 | | June . | 3 15 31 | 3 19 57 |
| | JUNE . | 7 0 21 | 6 14 17 | | July . | 3 4 14 | 3 2 45 |
| | JULY . | 6 18 8 | 6 2 13 | | Aug. . | 1 17 2 | 1 9 59 |
| | AUG. . | 5 1 52 | 4 16 36 | | Sept. . | 0 1 5 40 | 0 10 37 |
| | SEPT. . | 3 14 30 | 3 9 10 | | Oct. . | 20 18 30 | 20 5 24 |
| | ○ | 18 8 54 | 18 8 54 | | Nov. . | 20 7 14 | 20 19 2 |
| | OCT. . | 8 8 20 | 8 3 7 | | Dec. . | 27 19 56 | 27 11 18 |
| | NOV. . | 1 16 4 | 1 21 12 | | ○ | 27 8 42 | 27 5 30 |
| | DEC. . | 1 4 48 | 1 14 11 | | | | |
| | | 31 17 32 | 31 5 10 | | | | |
| 43. | JAN. . | 29 6 16 | 29 17 45 | 46. | JAN. . | 11 3 4 | 11 8 9 |
| v. | FEB. . | 27 19 0 | 28 4 2 | a. | Feb. . | 23 21 36 | 20 0 21 |
| 23 7 40 | ○ | 14 13 22 | 14 14 5 | 23 1 6 | Feb. . | 24 10 10 | 24 18 31 |
| | MAR. . | 29 7 45 | 29 12 24 | | Mar. | 25 22 54 | 26 10 35 |
| | APRIL . | 27 20 20 | 27 19 49 | | April . | 24 11 34 | 24 23 56 |
| | MAY . | 27 9 18 | 27 3 5 | | May . | 21 0 22 | 21 10 35 |
| | JUNE . | 25 21 57 | 25 11 20 | | June . | 22 13 6 | 22 19 16 |
| | JULY . | 25 10 41 | 24 21 34 | | ○ | 7 7 23 | 6 22 24 |
| | AUG. . | 23 23 25 | 23 10 44 | | July . | 22 1 50 | 22 2 59 |
| | ○ | 7 17 47 | 7 20 1 | | Aug. . | 20 14 31 | 20 10 46 |
| | SEPT. . | 22 12 9 | 22 2 45 | | Sept. . | 19 3 18 | 18 19 31 |
| | OCT. . | 22 0 53 | 21 21 5 | | Oct. . | 18 16 2 | 18 5 54 |
| | NOV. . | 20 13 37 | 20 16 23 | | Nov. . | 17 4 46 | 16 18 17 |
| | DEC. . | 20 2 21 | 20 11 4 | | Dec. . | 16 17 30 | 16 8 44 |
| | | | | | ○ | 31 11 52 | 31 22 32 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 47. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 50. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 15 6 15 | 15 0 58 | D. March. | JAN. . | 11 21 25 | 11 23 43 |
| <i>d. h. m.</i> | FEB. . | 13 18 59 | 13 18 16 | <i>d. h. m.</i> | FEB. . | 10 10 9 | 10 9 45 |
| 23 6 55 | MAR. . | 15 7 43 | 15 11 39 | 23 0 21 | MAR. . | 11 22 53 | 11 19 26 |
| | APRIL | 13 20 27 | 14 4 3 | | APRIL | { 10 11 37 | 10 5 24 |
| | MAY . | 13 9 11 | 13 18 37 | | ○ | { 25 5 59 | 25 18 20 |
| | JUNE . | { 11 21 55 | 12 7 3 | | MAY . | 10 0 21 | 9 16 23 |
| | ○ | { 26 16 17 | 26 4 54 | | JUNE . | 8 13 5 | 8 5 0 |
| | JULY . | 11 10 39 | 11 17 36 | | JULY . | 8 1 49 | 7 19 30 |
| | AUG. . | 9 23 23 | 10 2 56 | | AUG. . | 6 14 33 | 6 11 23 |
| | SEPT. . | 8 12 7 | 8 11 56 | | SEPT. . | 5 3 17 | 5 4 12 |
| | OCT. . | 8 0 51 | 7 21 22 | | OCT. . | { 4 16 1 | 4 20 47 |
| | NOV. . | 6 13 35 | 6 7 44 | | ○ | { 19 10 23 | 18 22 36 |
| | DEC. . | { 6 2 19 | 5 19 18 | | NOV. . | 3 4 45 | 3 12 27 |
| | ○ | { 20 20 41 | 21 7 7 | | DEC. . | 2 17 29 | 3 2 39 |
| 48. | JAN. . | 4 15 4 | 4 7 56 | 51. | JAN. . | { 1 6 13 | 1 15 9 |
| G.F. | FEB. . | 3 3 48 | 2 21 47 | C. | { 30 18 57 | 31 1 56 | |
| 22 12 44 | MAR. . | 3 16 32 | 3 12 42 | | FEB. . | ... | ... |
| | APRIL | 2 5 16 | 2 4 24 | 23 6 10 | MAR. . | { 1 7 42 | 1 11 15 |
| | MAY . | { 1 18 0 | 1 20 16 | | { 30 20 26 | 30 19 36 | |
| | ○ | { 81 6 44 | 31 11 34 | | ○ | { 14 14 48 | 15 0 59 |
| | JUNE . | { 15 1 6 | 14 18 25 | | APRIL | { 29 9 10 | 29 3 46 |
| | JULY . | { 29 19 28 | 30 1 45 | | MAY . | 23 21 54 | 23 12 42 |
| | AUG. . | 29 8 12 | 29 14 32 | | JUNE . | 27 10 38 | 26 23 25 |
| | SEPT. . | 27 20 56 | 28 2 8 | | JULY . | 26 23 22 | 26 12 32 |
| | OCT. . | 26 9 40 | 26 12 58 | | AUG. . | 25 12 6 | 25 4 11 |
| | NOV. . | 25 22 24 | 25 23 37 | | SEPT. . | 24 0 50 | 23 21 45 |
| | DEC. . | 24 11 8 | 24 10 21 | | ○ | { 8 19 12 | 8 12 57 |
| | | 23 23 52 | 23 21 16 | | OCT. . | { 23 13 34 | 23 16 8 |
| 49. | JAN. . | 22 12 37 | 22 8 27 | 52. | NOV. . | 22 2 18 | 22 10 0 |
| E. | FEB. . | 21 1 21 | 20 20 2 | B.A. | DEC. . | 21 15 2 | 22 2 12 |
| 22 18 33 | MAR. . | 22 14 5 | 22 8 21 | | JAN. . | 20 3 46 | 20 16 1 |
| | APRIL | 21 2 49 | 20 21 44 | | FEB. . | 18 16 31 | 19 3 18 |
| | ○ | { 5 21 11 | 6 4 37 | 22 11 59 | MAR. . | 19 5 15 | 19 12 25 |
| | MAY . | { 20 15 33 | 20 12 14 | | APRIL | 17 17 59 | 17 20 4 |
| | JUNE . | 19 4 17 | 19 3 31 | | MAY . | 17 6 43 | 17 3 8 |
| | JULY . | 18 17 1 | 18 19 0 | | JUNE . | 15 19 27 | 15 10 40 |
| | AUG. . | 17 5 45 | 17 9 59 | | JULY . | 15 8 11 | 14 19 47 |
| | SEPT. . | 15 18 29 | 16 0 9 | | AUG. . | 13 20 55 | 13 7 27 |
| | OCT. . | { 15 7 13 | 15 13 20 | | SEPT. . | 12 9 39 | 11 22 8 |
| | ○ | { 30 1 35 | 29 14 15 | | OCT. . | 11 22 23 | 11 15 32 |
| | NOV. . | 18 19 57 | 14 1 36 | | NOV. . | 10 11 7 | 10 10 40 |
| | DEC. . | 13 8 41 | 13 13 3 | | DEC. . | 9 23 51 | 10 5 57 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 53. G. March. d. h. m. 22 17 48 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 56. D.C. March. d. h. m. 22 11 14 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 12 35 | 8 23 46 | | JAN. . | 6 3 45 | 5 20 47 |
| | FEB. . | { 7 1 19 | 7 15 1 | | FEB. . | 4 16 29 | 4 13 25 |
| | ○ | { 21 19 41 | 21 14 0 | | MAR. . | 5 5 13 | 5 6 38 |
| | MAR. . | 8 14 3 | 9 3 15 | | APRIL | 3 17 57 | 3 23 27 |
| | APRIL | 7 2 47 | 7 12 45 | | MAY . | 3 6 41 | 3 14 57 |
| | MAY . | 6 15 31 | 6 20 21 | | JUNE . | 1 19 25 | 2 4 30 |
| | JUNE . | 5 4 15 | 5 3 2 | | JULY . | { 1 8 9 | 1 16 4 |
| | JULY . | 4 16 59 | 4 9 55 | | | { 30 20 53 | 31 2 6 |
| | AUG. . | { 3 5 43 | 2 18 5 | | AUG. . | 29 9 37 | 29 11 25 |
| | ○ | { 18 0 5 | 18 5 36 | | SEPT. . | 27 22 21 | 27 20 48 |
| | SEPT. . | 1 18 27 | { 1 4 33 | | OCT. . | 27 11 5 | 27 6 49 |
| | ○ | { 1 7 11 | { 30 17 59 | | NOV. . | 25 23 49 | 25 17 47 |
| | OCT. . | { 30 19 55 | 30 10 25 | | ○ | { 10 18 11 | 11 2 40 |
| | NOV. . | 29 8 39 | 29 5 6 | | DEC. . | { 25 12 33 | 25 5 47 |
| | DEC. . | 28 21 23 | 29 0 39 | | | | |
| 54. F. | JAN. . | 27 10 8 | 27 19 22 | 57. B. | JAN. . | 24 1 17 | 23 18 50 |
| | ○ | { 11 4 30 | 11 1 44 | | FEB. . | 22 14 1 | 22 8 58 |
| | FEB. . | { 25 22 52 | 26 11 50 | 22 17 3 | MAR. . | 24 2 46 | 24 0 2 |
| 22 23 37 | MAR. . | 27 11 36 | 28 1 17 | | APRIL | 22 15 30 | 22 15 40 |
| | APRIL | 26 0 20 | 26 11 47 | | MAY . | 22 4 14 | 22 7 16 |
| | MAY . | 25 13 4 | 25 20 3 | | ○ | { 5 22 33 | 5 18 35 |
| | JUNE . | 24 1 48 | 24 3 7 | | JUNE . | { 20 16 58 | 20 22 8 |
| | JULY . | 23 14 32 | 23 10 6 | | JULY . | 20 5 42 | 20 11 48 |
| | ○ | { 7 8 54 | 7 8 59 | | AUG. . | 18 18 26 | 19 0 14 |
| | AUG. . | { 22 3 16 | 21 18 0 | | SEPT. . | 17 7 10 | 17 11 40 |
| | SEPT. . | 20 16 0 | 20 3 48 | | OCT. . | 16 19 54 | 16 22 37 |
| | OCT. . | 20 4 44 | 19 16 4 | | NOV. . | { 15 8 38 | 15 9 25 |
| | NOV. . | 18 17 28 | 18 7 2 | | ○ | { 30 3 0 | 30 2 45 |
| | DEC. . | 18 6 12 | 18 0 16 | | DEC. . | 14 21 22 | 14 20 16 |
| 55. E. | JAN. . | { 16 18 57 | 16 18 52 | 58. A. | JAN. . | 13 10 6 | 13 7 11 |
| | ○ | { 31 13 19 | 31 17 33 | 22 22 52 | FEB. . | 11 22 50 | 11 18 16 |
| | FEB. . | 15 7 41 | 15 13 24 | | MAR. . | 13 11 34 | 13 5 53 |
| 23 5 26 | MAR. . | 16 20 25 | 17 6 29 | | APRIL | 12 0 18 | 11 18 25 |
| | APRIL | 15 9 9 | 15 21 8 | | MAY . | { 11 13 2 | 11 8 10 |
| | MAY . | 14 21 58 | 15 9 7 | | ○ | { 26 7 24 | 26 11 54 |
| | JUNE . | 13 10 37 | 13 18 45 | | JUNE . | 10 1 46 | 9 23 2 |
| | JULY . | { 12 23 21 | 13 2 57 | | JULY . | 9 14 30 | 9 14 33 |
| | ○ | { 27 17 43 | 27 9 20 | | AUG. . | 8 3 14 | 8 6 4 |
| | AUG. . | 11 12 5 | 11 10 44 | | SEPT. . | 6 15 58 | 6 20 57 |
| | SEPT. . | 10 0 49 | 9 19 6 | | OCT. . | 6 4 42 | 6 10 56 |
| | OCT. . | 9 13 33 | 9 4 45 | | NOV. . | { 4 17 26 | 4 23 53 |
| | NOV. . | 8 2 17 | 7 16 10 | | ○ | { 19 11 48 | 19 2 51 |
| | DEC. . | 7 15 1 | 7 5 34 | | DEC. . | 4 6 10 | 4 11 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 59. G. March. d. h. m. 23 4 41 | | d. h. m. | d. h. m. | A.D. 62. C. March. d. h. m. 22 22 7 | | d. h. m. | d. h. m. |
| | JAN. . | 2 18 55 | 2 22 55 | | JAN. . | 23 22 49 | 29 11 47 |
| | FEB. . | 1 7 39 | 1 9 5 | | FEB. . | 27 11 33 | 28 1 27 |
| | MAR. . | 2 20 23 | 2 18 40 | | ○ | 14 5 55 | 14 0 28 |
| | APRIL | { 1 9 7 | 1 4 9 | | MAR. . | { 29 0 17 | 29 12 9 |
| | | { 30 21 51 | 30 14 17 | | APRIL | 27 13 1 | 27 20 30 |
| | MAY . | 30 10 35 | 30 1 51 | | MAY . | 27 1 45 | 27 3 28 |
| | JUNE . | 28 23 19 | 28 15 20 | | JUNE . | 25 14 29 | 25 10 7 |
| | JULY . | 28 12 3 | 28 6 41 | | JULY . | 25 3 18 | 24 17 34 |
| | AUG. . | 27 0 47 | 26 23 20 | | AUG. . | 23 15 57 | 23 2 51 |
| | SEPT. . | 25 13 31 | 25 16 21 | | ○ | { 7 10 19 | 7 15 57 |
| | OCT. . | 25 2 15 | 25 8 51 | | SEPT. . | { 22 4 41 | 21 14 50 |
| | NOV. . | 23 14 59 | 24 0 2 | | OCT. . | 21 17 25 | 21 5 52 |
| | DEC. . | 23 3 43 | 23 13 30 | | NOV. . | 20 6 9 | 19 23 24 |
| | | | | | DEC. . | 19 18 53 | 19 18 50 |
| 60. F.E. 22 10 30 | JAN. . | 21 16 28 | 22 1 5 | 63. B. 23 3 56 | JAN. . | 18 7 38 | 18 14 7 |
| | FEB. . | 20 5 12 | 20 10 56 | | FEB. . | 16 20 22 | 17 7 45 |
| | MAR. . | 20 17 56 | 20 19 29 | | MAR. . | 18 9 6 | 18 22 39 |
| | ○ | { 4 12 18 | 4 20 50 | | APRIL | 16 21 50 | 17 10 32 |
| | APRIL | { 19 6 40 | 19 3 26 | | MAY . | 16 10 34 | 16 19 48 |
| | MAY . | 18 19 24 | 18 11 42 | | JUNE . | 14 23 18 | 15 3 21 |
| | JUNE . | 17 8 8 | 16 21 17 | | JULY . | 14 12 2 | 14 10 21 |
| | JULY . | 16 20 52 | 16 9 7 | | AUG. . | 13 0 46 | 12 17 48 |
| | AUG. . | 15 9 36 | 14 23 35 | | SEPT. . | 11 13 30 | 11 2 42 |
| | SEPT. . | { 13 22 20 | 13 16 26 | | OCT. . | 11 2 14 | 10 13 47 |
| | ○ | { 28 16 42 | 28 12 22 | | NOV. . | 9 14 58 | 9 3 25 |
| | OCT. . | 13 11 4 | 13 10 46 | | DEC. . | 9 3 42 | 8 19 32 |
| | NOV. . | 11 23 48 | 12 5 15 | | | | |
| | DEC. . | 11 12 32 | 11 22 33 | | | | |
| 61. D. 22 16 19 | JAN. . | 10 1 16 | 10 13 38 | 64. A.G. 22 9 45 | JAN. . | { 7 16 26 | 7 13 27 |
| | FEB. . | 8 14 0 | 9 2 7 | | ○ | { 22 10 48 | 22 16 52 |
| | MAR. . | { 10 2 44 | 10 12 8 | | FEB. . | 6 5 10 | 6 7 59 |
| | ○ | { 21 21 6 | 21 21 6 | | MAR. . | 6 17 54 | 7 1 46 |
| | APRIL | 8 15 28 | 8 20 15 | | APRIL | 5 6 33 | 5 17 38 |
| | MAY . | 8 4 12 | 8 3 21 | | MAY . | 4 19 22 | 5 6 55 |
| | JUNE . | 6 16 56 | 6 10 26 | | JUNE . | 3 8 6 | 3 17 42 |
| | JULY . | 6 5 40 | 5 18 36 | | JULY . | { 2 20 50 | 3 2 38 |
| | AUG. . | 4 18 24 | 4 4 54 | | ○ | { 17 15 12 | 17 5 13 |
| | SEPT. . | { 3 7 8 | 2 18 7 | | AUG. . | { 1 9 34 | 1 10 40 |
| | ○ | { 18 1 30 | 18 4 13 | | | { 30 22 18 | 30 18 51 |
| | OCT. . | 2 19 52 | 2 10 20 | | SEPT. . | 29 11 2 | 29 3 58 |
| | NOV. . | { 1 8 36 | 1 4 53 | | OCT. . | 28 23 46 | 28 14 33 |
| | | { 30 21 20 | { 1 0 22 | | NOV. . | 27 12 30 | 27 2 57 |
| | DEC. . | 30 10 4 | { 30 19 9 | | DEC. . | 27 1 14 | 26 17 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--|---|--|---|---|--|--|
| A.D. 65. F. March. d. h. m. 22 15 34 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | d. h. m. { 10 19 37 25 13 59 24 2 43 25 15 27 24 4 11 23 16 55 22 5 39 { 7 0 1 21 18 23 20 7 7 18 19 51 18 8 35 16 21 19 { 16 10 3 31 4 25 | d. h. m. 11 7 9 25 8 56 24 1 41 25 18 37 24 10 44 24 1 19 22 13 57 6 12 1 22 0 54 20 10 42 18 20 13 18 6 4 16 16 38 16 4 5 31 15 22 | A.D. 68. C.B. March. d. h. m. 22 9 0 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | d. h. m. 23 5 9 21 17 53 22 6 37 20 19 21 { 5 13 43 20 8 5 18 20 49 18 9 33 16 22 17 15 11 1 { 14 23 45 29 18 7 13 12 29 13 1 13 | d. h. m. 23 8 28 21 18 5 22 8 17 20 12 45 6 1 29 19 23 19 18 11 41 18 2 9 16 13 21 15 11 32 15 4 41 29 7 9 13 20 50 13 11 20 |
| 66. E. 22 21 23 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 22 48 13 11 32 15 0 16 13 13 0 13 1 44 { 11 14 28 26 8 50 11 3 12 9 15 56 8 4 40 7 17 24 6 6 8 5 18 52 | 14 16 26 13 5 45 14 20 2 13 11 12 13 2 45 11 18 4 26 1 49 11 8 32 9 21 43 8 9 59 7 21 24 6 8 27 5 19 20 | 69. A. 22 14 49 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 11 13 53 10 2 42 11 15 26 { 10 4 10 24 22 32 9 16 54 8 5 38 7 18 22 6 7 6 4 19 50 { 4 8 34 19 2 56 2 21 18 { 2 10 2 31 22 46 | 11 23 52 10 10 27 11 19 25 10 3 21 25 7 47 9 11 9 7 19 49 7 6 22 5 19 31 4 11 21 4 5 16 18 21 39 3 0 2 2 18 14 ... |
| 67. D. 23 3 12 | JAN. . FEB. . MAR. . APRIL ○ MAY JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 4 7 36 2 20 20 4 9 4 2 21 43 { 2 10 32 17 4 54 31 23 16 30 12 0 30 0 44 28 13 23 27 2 12 26 14 56 { 10 9 18 25 3 40 24 16 24 | 4 6 8 2 16 54 4 3 56 2 15 40 2 4 32 17 12 2 31 18 43 30 9 59 30 1 44 28 17 16 27 8 2 26 21 46 9 22 27 25 10 25 24 21 58 | 70. G. 22 20 38 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 1 0 14 30 12 58 29 1 42 28 14 26 27 3 10 26 15 54 25 4 38 23 17 22 23 6 6 21 18 50 21 7 34 | 1 10 36 31 0 22 1 11 28 30 20 18 29 3 40 28 10 32 26 17 57 26 3 6 24 14 51 23 5 41 22 23 17 21 18 34 21 13 59 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 71. F. March. d. h. m. 23 2 27 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 74. B. March. d. h. m. 22 19 53 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 19 20 19 | 20 7 50 | | JAN. . | 16 11 29 | 16 4 59 |
| | FEB. . | 18 9 3 | 18 22 58 | | FEB. . | 15 0 13 | 14 21 2 |
| | ○ | { 5 3 25 | 4 21 46 | | MAR. . | 16 12 57 | 16 13 43 |
| | MAR. . | { 19 21 47 | 20 11 1 | | APRIL | 15 1 41 | 15 6 11 |
| | APRIL | 18 10 31 | 18 20 22 | | MAY . | 14 14 25 | 14 21 33 |
| | MAY . | 17 23 15 | 18 3 50 | | JUNE . | 13 3 9 | 13 11 15 |
| | JUNE . | 16 11 59 | 16 10 30 | | JULY . | 12 15 53 | 12 23 10 |
| | JULY . | 16 0 43 | 15 17 26 | | AUG. . | 11 4 37 | 11 9 41 |
| | AUG. . | { 14 13 27 | 14 1 47 | | SEPT. . | 9 17 21 | 9 19 32 |
| | ○ | { 29 7 49 | 29 13 3 | | OCT. . | 9 6 5 | 9 5 22 |
| | SEPT. . | 13 2 11 | 12 12 26 | | NOV. . | 7 18 49 | 7 15 42 |
| | OCT. . | 12 14 55 | 12 2 0 | | DEC. . | { 7 7 33 | 7 2 42 |
| | NOV. . | 11 3 39 | 10 18 23 | | ○ | { 22 1 55 | 22 10 51 |
| | DEC. . | 10 16 23 | 10 13 8 | | | | |
| 72. E.D. 22 8 16 | JAN. . | 9 5 7 | 9 8 30 | 75. A. 23 1 42 | JAN. . | 5 20 17 | 5 14 27 |
| | FEB. . | { 7 17 51 | 8 3 1 | | FEB. . | 4 9 1 | 4 3 2 |
| | ○ | { 22 12 13 | 22 10 0 | | MAR. . | 5 21 45 | 5 16 33 |
| | MAR. . | 8 6 35 | 8 19 17 | | APRIL | 4 10 29 | 4 7 2 |
| | APRIL | 6 19 19 | 7 8 36 | | MAY . | 3 23 13 | 3 22 14 |
| | MAY . | 6 8 3 | 6 19 3 | | JUNE . | { 2 11 57 | 2 13 42 |
| | JUNE . | 4 20 47 | 5 3 23 | | ○ | { 17 6 19 | 17 1 59 |
| | JULY . | 4 9 31 | 4 10 35 | | JULY . | { 2 0 41 | 2 4 44 |
| | AUG. . | { 2 22 15 | 2 17 49 | | | { 31 13 25 | 31 18 50 |
| | ○ | { 17 16 37 | 17 15 55 | | AUG. . | 30 2 9 | 30 7 49 |
| | SEPT. . | { 1 10 59 | 1 2 2 | | SEPT. . | 28 14 53 | 23 19 51 |
| | | { 30 23 43 | 30 12 5 | | OCT. . | 28 8 37 | 28 7 17 |
| | OCT. . | 30 12 27 | 30 0 29 | | NOV. . | 26 16 21 | 26 18 21 |
| | NOV. . | 29 1 11 | 28 15 22 | | ○ | { 11 10 43 | 11 10 43 |
| | DEC. . | 28 13 55 | 28 8 23 | | DEC. . | { 26 5 5 | 26 5 11 |
| 73. C. 22 14 5 | JAN. . | 27 2 40 | 27 2 35 | 76. G.F. 22 7 31 | JAN. . | 24 17 50 | 24 15 50 |
| | ○ | { 10 21 2 | 11 2 3 | | FEB. . | 23 6 34 | 23 2 26 |
| | FEB. . | { 25 15 24 | 25 20 42 | | MAR. . | 23 19 18 | 23 13 27 |
| | MAR. . | 27 4 8 | 27 13 30 | | APRIL | 22 8 2 | 22 1 26 |
| | APRIL | 25 16 52 | 26 4 4 | | MAY . | 21 20 46 | 21 14 46 |
| | MAY . | 25 5 36 | 25 16 5 | | ○ | { 5 15 8 | 5 19 18 |
| | JUNE . | 23 18 20 | 24 1 57 | | JUNE . | { 20 9 30 | 20 5 30 |
| | JULY . | 23 7 4 | 23 10 29 | | JULY . | 19 22 14 | 19 21 11 |
| | ○ | { 7 1 26 | 6 16 11 | | AUG. . | 18 10 58 | 18 13 6 |
| | AUG. . | { 21 19 48 | 21 18 41 | | SEPT. . | 16 23 42 | 17 4 35 |
| | SEPT. . | 20 8 32 | 20 3 26 | | OCT. . | 16 12 26 | 16 19 10 |
| | OCT. . | 19 21 16 | 19 13 23 | | NOV. . | { 15 1 10 | 15 8 35 |
| | NOV. . | 18 10 0 | 18 0 55 | | ○ | { 29 19 32 | 29 11 8 |
| | DEC. . | 17 22 44 | 17 14 8 | | DEC. . | 14 13 54 | 14 20 46 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 77. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 80. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 13 2 39 | 13 7 44 | March. | JAN. . | 10 17 49 | 11 3 11 |
| <i>d. h. m.</i> | FEB. . | 11 15 23 | 11 17 36 | <i>d. h. m.</i> | FEB. . | 9 6 33 | 9 19 43 |
| 22 13 20 | MAR. . | 13 4 7 | 13 2 44 | 22 6 47 | MAR. . | { 9 19 17 | 10 9 14 |
| | APRIL | 11 16 51 | 11 11 42 | | ○ | { 24 13 39 | 24 6 53 |
| | MAY . | 11 5 35 | 10 21 23 | | APRIL | 8 8 1 | 8 19 46 |
| | JUNE . | 9 18 19 | 9 8 38 | | MAY . | 7 20 45 | 8 4 0 |
| | JULY . | 9 7 3 | 8 22 0 | | JUNE . | 6 9 29 | 6 10 54 |
| | AUG. . | 7 19 47 | 7 13 29 | | JULY . | 5 22 13 | 5 17 36 |
| | SEPT. . | 6 8 31 | 6 6 29 | | AUG. . | 4 10 57 | 4 1 14 |
| | OCT. . | 5 21 15 | 6 0 2 | | SEPT. . | { 2 23 41 | 2 10 48 |
| | NOV. . | 4 9 59 | 4 17 2 | | ○ | { 17 18 3 | 17 23 46 |
| | DEC. . | 3 22 43 | 4 8 37 | | OCT. . | 2 12 25 | { 1 22 52 |
| | | | | | NOV. . | { 1 1 9 | { 31 13 58 |
| | | | | | DEC. . | { 30 13 53 | 30 7 39 |
| 78. | JAN. . | 2 11 27 | 2 22 11 | | | 30 2 37 | 30 2 46 |
| D. | FEB. . | 1 0 11 | 1 9 39 | | | | |
| 22 19 9 | MAR. . | 2 12 55 | 2 19 12 | | | | |
| | APRIL ○ | { 1 1 39 | 1 3 22 | 81. | JAN. . | 23 15 22 | 28 21 50 |
| | | { 15 20 1 | 16 3 36 | G. | FEB. . | 27 4 5 | 27 15 12 |
| | | { 30 14 23 | 30 10 57 | 22 12 35 | MAR. . | 28 16 49 | 29 5 57 |
| | MAY . | 30 3 7 | 29 18 54 | | APRIL | 27 5 33 | 27 17 46 |
| | JUNE . | 23 15 51 | 28 4 19 | | MAY . | 26 18 17 | 27 3 3 |
| | JULY . | 28 4 35 | 27 16 7 | | JUNE . | 25 7 1 | 25 10 45 |
| | AUG. . | 26 17 19 | 26 6 42 | | JULY . | 24 19 45 | 24 17 58 |
| | SEPT. . | 25 6 3 | 24 23 49 | | AUG. . | 23 8 29 | 23 1 45 |
| | ○ | { 10 0 25 | 9 20 56 | | SEPT. . | 21 21 13 | 21 10 57 |
| | OCT. . | { 24 18 47 | 24 18 30 | | OCT. . | 21 9 57 | 20 22 13 |
| | NOV. . | 23 7 31 | 23 13 20 | | NOV. . | 19 22 41 | 19 11 52 |
| | DEC. . | 22 20 15 | 23 6 51 | | DEC. . | 19 11 25 | 19 3 47 |
| 79. | JAN. . | 21 9 0 | 21 21 59 | 82. | JAN. . | 18 0 10 | 17 21 20 |
| C. | FEB. . | 19 21 44 | 20 10 20 | F. | ○ | { 1 18 32 | 2 1 23 |
| 23 0 53 | MAR. . | 21 10 28 | 21 20 6 | | FEB. . | { 16 12 54 | 16 15 26 |
| | ○ | { 5 4 50 | 5 3 53 | 22 18 21 | MAR. . | 18 1 38 | 18 8 52 |
| | APRIL | { 19 23 12 | 20 3 57 | | APRIL | 16 14 22 | 17 0 32 |
| | MAY . | 19 11 56 | 19 10 50 | | MAY . | 16 3 6 | 16 13 50 |
| | JUNE . | 18 0 40 | 17 17 47 | | JUNE . | 14 15 50 | 15 0 47 |
| | JULY . | 17 13 24 | 17 1 57 | | JULY . | { 14 4 34 | 14 10 2 |
| | AUG. . | 16 2 8 | 15 12 20 | | ○ | { 23 22 56 | 23 12 5 |
| | SEPT. . | { 14 14 52 | 14 1 41 | | AUG. . | 12 17 18 | 12 18 28 |
| | ○ | { 29 9 14 | 29 12 33 | | SEPT. . | 11 6 2 | 11 8 4 |
| | OCT. . | 14 3 36 | 13 18 4 | | OCT. . | 10 18 46 | 10 12 32 |
| | NOV. . | 12 16 20 | 12 12 43 | | NOV. . | 9 7 30 | 8 23 20 |
| | DEC. . | 12 5 4 | 12 8 23 | | DEC. . | 8 20 14 | 8 11 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 83. E. March. d. h. m. 23 0 18 | JAN. . | d. h. m. 7 8 59 | d. h. m. 7 1 34 | A.D. 86. A. March. d. h. m. 22 17 40 | JAN. . | d. h. m. 4 0 8 | d. h. m. 4 6 49 |
| | ○ | 22 8 21 | 22 15 38 | | FEB. . | 2 12 52 | 2 17 5 |
| | FEB. . | 5 21 43 | 5 16 43 | | MAR. . | 4 1 36 | 4 2 19 |
| | MAR. . | 7 10 27 | 7 8 59 | | APRIL | 2 14 20 | 2 11 1 |
| | APRIL | 5 23 11 | 6 1 26 | | ○ | 2 3 4 | 1 20 2 |
| | MAY . | 5 11 55 | 5 17 20 | | MAY ○ | 16 21 26 | 17 8 31 |
| | JUNE . | 4 0 39 | 4 7 57 | | | 31 15 48 | 31 6 13 |
| | JULY . | 3 13 23 | 3 20 53 | | JUNE . | 30 4 32 | 29 13 24 |
| | ○ | 18 7 45 | 17 19 14 | | JULY . | 29 17 16 | 29 8 53 |
| | AUG. . | 2 2 7 | 2 8 16 | | AUG. . | 28 6 0 | 28 1 21 |
| | | 31 14 51 | 31 18 38 | | SEPT. . | 26 18 44 | 26 18 59 |
| | SEPT. . | 30 3 35 | 30 4 38 | | OCT. . | 26 7 28 | 26 12 38 |
| | OCT. . | 29 16 19 | 29 14 52 | | ○ | 10 1 50 | 9 15 48 |
| | NOV. . | 23 5 3 | 28 1 35 | | NOV. . | 24 20 12 | 25 5 14 |
| | DEC. . | 27 17 47 | 27 12 54 | | DEC. . | 24 8 56 | 24 19 57 |
| 84. D.C. 22 6 2 | ○ | 11 12 9 | 11 23 30 | 87. G. 22 23 28 | JAN. . | 22 21 41 | 23 8 27 |
| | JAN. . | 26 6 31 | 26 0 51 | | FEB. . | 21 10 25 | 21 18 48 |
| | FEB. . | 24 19 15 | 24 13 35 | | MAR. . | 22 23 9 | 23 3 25 |
| | MAR. . | 25 7 59 | 25 3 16 | | APRIL | 21 11 53 | 21 10 59 |
| | APRIL | 23 20 43 | 23 17 56 | | ○ | 6 6 15 | 6 14 28 |
| | MAY . | 23 9 27 | 23 9 13 | | MAY . | 21 0 37 | 20 18 29 |
| | JUNE . | 21 22 11 | 22 0 33 | | JUNE . | 19 13 21 | 19 2 57 |
| | ○ | 6 16 33 | 6 9 17 | | JULY . | 19 2 5 | 18 13 26 |
| | JULY . | 21 10 55 | 21 15 20 | | AUG. . | 17 14 49 | 17 2 38 |
| | AUG. . | 19 23 39 | 20 5 9 | | SEPT. . | 16 3 33 | 15 18 40 |
| | SEPT. . | 18 12 23 | 18 17 56 | | ○ | 15 16 17 | 15 12 53 |
| | OCT. . | 18 1 7 | 18 5 54 | | | 30 10 39 | 30 6 25 |
| | NOV. . | 16 13 51 | 16 17 13 | | NOV. . | 14 5 1 | 14 8 0 |
| | DEC. . | 16 2 35 | 16 4 17 | | DEC. . | 13 17 45 | 14 2 26 |
| 85. B. 22 11 51 | JAN. . | 14 15 20 | 14 14 55 | 88. F.E. 22 5 17 | JAN. . | 12 6 30 | 12 18 55 |
| | FEB. . | 13 4 4 | 13 1 17 | | FEB. . | 10 19 14 | 11 8 36 |
| | MAR. . | 14 16 48 | 14 11 46 | | MAR. . | 11 7 58 | 11 19 29 |
| | APRIL | 13 5 32 | 12 22 55 | | APRIL | 9 20 42 | 10 4 5 |
| | MAY . | 12 18 16 | 12 11 19 | | MAY . | 9 9 26 | 9 11 13 |
| | JUNE . | 11 7 0 | 11 1 14 | | JUNE . | 7 22 10 | 7 17 56 |
| | JULY . | 10 19 44 | 10 16 32 | | JULY . | 7 10 54 | 7 1 21 |
| | AUG. . | 9 8 28 | 9 8 34 | | AUG. . | 5 23 38 | 5 10 33 |
| | SEPT. . | 7 21 12 | 8 0 39 | | SEPT. . | 4 12 22 | 3 22 26 |
| | OCT. . | 7 9 56 | 7 16 2 | | OCT. . | 4 1 6 | 3 13 24 |
| | NOV. . | 5 22 40 | 6 6 18 | | NOV. . | 2 13 50 | 2 7 11 |
| | ○ | 20 17 2 | 20 6 45 | | DEC. . | 2 2 34 | 2 2 33 |
| | DEC. . | 5 11 24 | 5 19 14 | | | 31 15 18 | 31 21 57 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 89. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 92. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 30 4 2 | 30 15 43 | A.G. | JAN. . | 27 19 12 | 27 13 4 |
| March. | FEB. . | 28 16 46 | ... | March. | FEB. . | 26 7 56 | 26 4 33 |
| <i>d. h. m.</i> | MAR. ○ | ... | 1 6 43 | <i>d. h. m.</i> | MAR. . | 26 20 40 | 26 20 42 |
| 22 11 6 | APRIL | 15 11 8 | 15 5 24 | 22 4 33 | APRIL | 25 9 24 | 25 12 49 |
| | MAY . | 30 5 30 | 30 18 37 | | MAY . | 24 22 8 | 25 4 6 |
| | JUNE . | 28 18 14 | 29 3 49 | | JUNE . | 23 10 52 | 23 18 0 |
| | JULY . | 28 6 58 | 28 11 15 | | JULY . | 22 23 36 | 23 6 19 |
| | AUG. . | 26 19 42 | 26 17 56 | | AUG. . | 21 12 20 | 21 17 22 |
| | SEPT. . | 26 8 26 | 26 1 3 | | SEPT. . | 20 1 4 | 20 3 46 |
| | OCT. . | 24 21 10 | 24 9 36 | | OCT. . | 19 13 48 | 19 14 1 |
| | NOV. . | ○ 8 15 32 | 8 20 34 | | NOV. . | 18 2 32 | 18 0 36 |
| | DEC. . | 23 9 54 | 22 20 28 | | DEC. . | 17 15 16 | 17 11 36 |
| | | 22 22 38 | 22 10 9 | | | | |
| | | 21 11 22 | 21 2 37 | | | | |
| | | 21 0 6 | 20 21 6 | | | | |
| 90. | JAN. . | 19 12 51 | 19 16 16 | 93. | ○ | 1 9 39 | 1 18 56 |
| C. | FEB. . | 18 1 35 | 18 10 32 | F. | JAN. . | 16 4 1 | 15 23 6 |
| | ○ | 4 19 57 | 4 18 10 | 22 10 21 | FEB. . | 14 16 45 | 14 11 9 |
| 22 16 55 | MAR. . | 19 14 19 | 20 2 35 | | MAR. . | 16 5 29 | 16 0 2 |
| | APRIL | 18 3 3 | 18 15 49 | | APRIL | 14 18 13 | 14 13 56 |
| | MAY . | 17 15 47 | 18 2 16 | | MAY . | 14 6 57 | 14 4 47 |
| | JUNE . | 16 4 31 | 16 10 42 | | JUNE . | 12 19 41 | 12 20 8 |
| | JULY . | 15 17 15 | 15 18 9 | | ○ | 27 14 3 | 27 9 27 |
| | AUG. . | 14 5 59 | 14 1 41 | | JULY . | 12 8 25 | 12 11 23 |
| | ○ | 29 0 21 | 28 22 58 | | AUG. . | 10 21 9 | 11 1 57 |
| | SEPT. . | 12 18 43 | 12 10 15 | | SEPT. . | 9 9 53 | 9 15 32 |
| | OCT. . | 12 7 27 | 11 20 32 | | OCT. . | 8 22 37 | 9 4 11 |
| | NOV. . | 10 20 11 | 10 9 1 | | NOV. . | 7 11 21 | 7 16 3 |
| | DEC. . | 10 8 55 | 9 23 47 | | DEC. . | 7 0 5 | 7 3 20 |
| | | | | | ○ | 21 18 27 | 21 18 39 |
| 91. | JAN. . | 8 21 40 | 8 16 27 | 94. | JAN. . | 5 12 50 | 5 14 6 |
| B. | FEB. . | 7 10 24 | 7 10 11 | E. | FEB. . | 4 1 34 | 4 0 23 |
| | ○ | 22 4 46 | 22 10 27 | 22 16 10 | MAR. . | 5 14 18 | 5 10 30 |
| 22 22 44 | MAR. . | 8 23 8 | 9 3 53 | | APRIL | 4 3 2 | 3 20 56 |
| | APRIL | 7 11 52 | 7 20 24 | | MAY . | 3 15 46 | 3 8 24 |
| | MAY . | 7 0 36 | 7 10 54 | | JUNE . | 2 4 30 | 1 21 23 |
| | JUNE . | 5 13 20 | 5 23 3 | | ○ | 16 22 52 | 17 2 42 |
| | JULY . | 5 2 4 | 5 9 11 | | JULY . | 1 17 14 | 1 12 1 |
| | AUG. . | 3 14 48 | 3 18 6 | | | 31 5 58 | 31 3 52 |
| | ○ | 18 9 10 | 17 23 10 | | AUG. . | 29 18 42 | 29 20 15 |
| | SEPT. . | 2 3 32 | 2 2 45 | | SEPT. . | 28 7 26 | 28 12 20 |
| | OCT. . | 1 16 16 | 1 11 55 | | OCT. . | 27 20 10 | 28 3 30 |
| | NOV. . | 31 5 0 | 30 22 8 | | NOV. . | 26 8 54 | 26 17 18 |
| | DEC. . | 29 17 44 | 29 9 42 | | ○ | 11 3 16 | 10 19 18 |
| | | 29 6 28 | 28 22 43 | | DEC. . | 25 21 38 | 26 5 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 95. D. March. d. h. m. 22 21 59 | | d. h. m. | d. h. m. | A.D. 98. G. March. d. h. m. 22 15 26 | | d. h. m. | d. h. m. |
| | JAN. . | 24 10 22 | 24 16 27 | | JAN. . | 21 1 32 | 21 11 4 |
| | FEB. . | 22 23 6 | 23 1 58 | | FEB. . | 19 14 16 | 20 3 27 |
| | MAR. . | 24 11 50 | 24 10 39 | | MAR. . | 21 3 0 | 21 16 50 |
| | APRIL | 23 0 34 | 22 19 9 | | ○ | { 4 21 22 | 4 15 11 |
| | MAY . | 22 13 18 | 22 4 26 | | APRIL | { 19 15 44 | 20 3 14 |
| | ○ | { 6 7 40 | 6 17 7 | | MAY . | 19 4 28 | 19 11 24 |
| | JUNE . | { 21 2 2 | 20 15 27 | | JUNE . | 17 17 12 | 17 18 20 |
| | JULY . | 20 14 46 | 20 4 45 | | JULY . | 17 5 56 | 17 1 11 |
| | AUG. . | 19 3 30 | 18 20 23 | | AUG. . | 15 18 40 | 15 9 1 |
| | SEPT. . | 17 16 14 | 17 13 45 | | SEPT. . | { 14 7 24 | 13 18 45 |
| | OCT. . | 17 4 58 | 17 7 43 | | ○ | { 29 1 46 | 29 7 40 |
| | NOV. . | 15 17 42 | 16 1 15 | | OCT. . | 13 20 8 | 13 7 3 |
| | DEC. . | 15 6 26 | 15 17 8 | | NOV. . | 12 8 52 | 11 22 11 |
| | | | | | DEC. . | 11 21 36 | 11 15 44 |
| 96. C.B. 22 3 48 | JAN. . | 13 19 11 | 14 6 46 | 99. F. 22 21 14 | JAN. . | 10 10 20 | 10 10 37 |
| | FEB. . | 12 7 55 | 12 18 5 | | FEB. . | 8 23 5 | 9 5 22 |
| | MAR. . | 12 20 39 | 13 3 20 | | MAR. . | 10 11 49 | 10 22 31 |
| | APRIL | 11 9 23 | 11 11 8 | | APRIL | 9 0 33 | 9 13 9 |
| | MAY . | 10 22 7 | 10 18 25 | | MAY . | 8 13 17 | 9 0 54 |
| | JUNE . | 9 10 51 | 9 2 8 | | JUNE . | 7 2 1 | 7 10 18 |
| | JULY . | 8 23 35 | 8 11 27 | | JULY . | 6 14 45 | 6 18 13 |
| | AUG. . | 7 12 19 | 6 23 16 | | AUG. . | 5 3 29 | 5 1 44 |
| | SEPT. . | 6 1 3 | 5 13 59 | | SEPT. . | 3 16 13 | 3 9 51 |
| | OCT. . | { 5 13 47 | 5 7 23 | | OCT. . | 3 4 57 | 2 19 22 |
| | ○ | { 20 8 9 | 20 5 39 | | NOV. . | 1 17 41 | { 1 6 47 |
| | NOV. . | 4 2 31 | 4 2 21 | | DEC. . | { 1 6 25 | { 80 20 24 |
| | DEC. . | 3 15 15 | 3 21 27 | | | { 80 19 9 | 80 12 1 |
| 97. A. 22 9 37 | JAN. . | { 2 4 0 | 2 15 7 | 100. E.D. 22 3 3 | JAN. . | 29 7 54 | 29 5 8 |
| | FEB. . | { 31 16 44 | ... | | ○ | { 13 2 16 | 13 9 59 |
| | MAR. . | { 2 5 28 | 2 18 23 | | FEB. . | { 27 20 38 | 27 22 45 |
| | ○ | { 15 12 34 | { 1 8 55 | | MAR. . | 28 9 22 | 28 15 50 |
| | APRIL | { 30 6 56 | { 30 11 33 | | APRIL | 26 22 6 | 27 7 19 |
| | MAY . | 29 19 40 | 29 18 17 | | MAY . | 26 10 50 | 26 20 40 |
| | JUNE . | 28 8 24 | 28 1 12 | | JUNE . | 24 23 34 | 25 7 52 |
| | JULY . | 27 21 8 | 27 9 25 | | JULY . | 24 12 18 | 24 17 29 |
| | AUG. . | 26 9 52 | 25 19 56 | | ○ | { 8 6 40 | 7 19 5 |
| | SEPT. . | 24 22 36 | 24 9 26 | | AUG. . | { 23 1 2 | 23 2 22 |
| | ○ | { 9 16 58 | 9 20 59 | | SEPT. . | 21 13 46 | 21 11 24 |
| | OCT. . | { 24 11 20 | 24 1 58 | | OCT. . | 21 2 30 | 20 21 18 |
| | NOV. . | 23 0 4 | 22 20 45 | | NOV. . | 19 15 14 | 19 8 11 |
| | DEC. . | 22 12 48 | 22 16 21 | | DEC. . | 19 3 58 | 18 20 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--------|------------------------------------|------------------------------------|---|--------|------------------------------------|------------------------------------|
| A.D. 101. c. March. d. h. m. 22 8 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 104. G.F. March. d. h. m. 22 2 18 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 16 42 | 17 9 53 | | JAN. . | 15 7 52 | 15 15 34 |
| | ○ | { 1 11 4 | 1 23 59 | | FEB. . | 13 20 36 | 14 1 36 |
| | FEB. . | { 16 5 26 | 16 0 33 | | MAR.. | 14 9 20 | 14 10 24 |
| | MAR.. | 17 18 10 | 17 16 9 | | APRIL | 12 22 4 | 12 18 40 |
| | APRIL | 16 6 54 | 16 8 9 | | MAY . | { 12 10 48 | 12 3 16 |
| | MAY . | 15 19 38 | 15 23 52 | | ○ | { 27 5 10 | 27 14 31 |
| | JUNE . | 14 8 22 | 14 14 32 | | JUNE . | 10 23 32 | 10 13 10 |
| | JULY . | { 13 21 6 | 14 3 49 | | JULY . | 10 12 16 | 10 1 13 |
| | ○ | { 28 15 28 | 28 2 34 | | AUG.. | 9 1 0 | 8 15 46 |
| | AUG.. | 12 9 50 | 12 15 42 | | SEPT.. | 7 13 44 | 7 8 32 |
| | SEPT.. | 10 22 34 | 11 2 38 | | OCT. . | 7 2 28 | 7 2 35 |
| | OCT. . | 10 11 18 | 10 13 9 | | NOV. . | { 5 15 12 | 5 20 42 |
| | NOV. . | 9 0 2 | 8 23 43 | | ○ | { 20 9 34 | 20 0 34 |
| | DEC. . | 8 12 46 | 8 10 32 | | DEC. . | 5 3 56 | 5 13 38 |
| 102. B. 22 14 41 | JAN. . | { 7 1 31 | 6 21 41 | 105. E. 22 8 7 | JAN. . | 3 16 41 | 4 4 32 |
| | ○ | { 21 19 53 | 22 7 32 | | FEB. . | 2 5 25 | 2 16 56 |
| | FEB. . | 5 14 15 | 5 9 12 | | MAR.. | 3 18 9 | 4 3 1 |
| | MAR.. | 7 2 59 | 6 21 19 | | APRIL | 2 6 53 | 2 11 17 |
| | APRIL | 5 15 43 | 5 10 25 | | | { 1 19 37 | 1 18 33 |
| | MAY . | 5 4 27 | 5 0 36 | | MAY ○ | { 16 13 59 | 16 21 5 |
| | JUNE . | 3 17 11 | 3 15 39 | | | { 31 8 21 | 31 1 49 |
| | JULY . | { 3 5 55 | 3 7 5 | | JUNE . | 29 21 5 | 29 10 9 |
| | ○ | { 18 0 17 | 17 16 50 | | JULY . | 29 9 49 | 28 20 37 |
| | | { 1 18 39 | 1 22 14 | | AUG. . | 27 22 33 | 27 9 55 |
| | AUG. . | { 31 7 23 | 31 12 38 | | SEPT.. | 26 11 17 | 26 2 9 |
| | SEPT.. | 29 20 7 | 30 2 2 | | OCT. . | 26 0 1 | 25 20 39 |
| | OCT. . | 29 8 51 | 29 14 31 | | ○ | { 9 18 23 | 9 15 18 |
| | NOV. . | 27 21 35 | 28 2 14 | | NOV. . | { 24 12 45 | 24 15 59 |
| | DEC. . | 27 10 19 | 27 13 15 | | DEC. . | 24 1 29 | 24 10 36 |
| 103. A. 22 20 30 | JAN. . | 25 23 3 | 25 23 37 | 106. D. 22 13 56 | JAN. . | 22 14 13 | 23 3 5 |
| | FEB. . | 24 11 47 | 24 9 31 | | FEB. . | 21 2 57 | 21 16 39 |
| | MAR.. | 26 0 31 | 25 19 26 | | MAR.. | 22 15 41 | 23 3 20 |
| | APRIL | 24 13 15 | 24 6 3 | | APRIL | 21 4 25 | 21 11 42 |
| | MAY . | 24 1 59 | 23 18 3 | | MAY . | 20 17 9 | 20 18 41 |
| | JUNE . | 22 14 43 | 22 7 46 | | JUNE . | 19 5 53 | 19 1 21 |
| | JULY . | 22 3 27 | 21 23 8 | | JULY . | 18 18 37 | 18 8 49 |
| | AUG. . | 20 16 11 | 20 15 32 | | AUG. . | 17 7 21 | 16 18 8 |
| | SEPT.. | 19 4 55 | 19 8 8 | | SEPT.. | 15 20 5 | 15 6 10 |
| | OCT. . | 18 17 39 | 19 0 7 | | OCT. . | 15 8 49 | 14 21 17 |
| | NOV. . | 17 6 23 | 17 14 51 | | NOV. . | 13 21 33 | 13 15 7 |
| | ○ | { 2 0 45 | 1 15 6 | | DEC. . | 13 10 17 | 13 10 31 |
| | DEC. . | { 16 19 7 | 17 4 2 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon (Full Ecl.) | True New Moon (Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon (Full Ecl.) | True New Moon (Full Ecl.) |
|---------------------------|---------|---------------------------------|---------------------------------|----------------------------|---------|---------------------------------|---------------------------------|
| A.D. 107. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 110. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | 11 23 2 | 12 5 50 | March. | JAN. . | 8 14 12 | 8 7 14 |
| <i>d. h. m.</i> | FEB. . | 10 11 46 | 10 23 29 | <i>d. h. m.</i> | FEB. . | 7 2 50 | 6 21 4 |
| 22 19 45 | MAR. . | 12 0 30 | 12 14 19 | 22 18 11 | MAR. . | 8 15 40 | 8 11 57 |
| | | (26 18 52) | 26 12 57 | | APRIL . | 7 4 24 | 7 3 31 |
| | APRIL . | 10 13 14 | 11 2 6 | | MAY . | 6 17 8 | 6 19 21 |
| | MAY . | 10 1 58 | 10 11 13 | | JUNE . | 5 5 52 | 5 10 37 |
| | JUNE . | 8 14 42 | 8 18 40 | | JULY . | 4 18 36 | 5 0 45 |
| | JULY . | 8 3 26 | 8 1 29 | | AUG. . | 3 7 20 | 3 13 33 |
| | AUG. . | 6 16 10 | 6 8 48 | | SEPT. . | 1 20 4 | 2 1 10 |
| | SEPT. . | 5 4 54 | 4 17 36 | | OCT. . | 1 8 48 | 1 12 6 |
| | ○ | (19 23 16) | 20 4 15 | | NOV. . | (30 21 32) | 30 22 49 |
| | OCT. . | 4 17 38 | 4 4 40 | | DEC. . | 29 10 16 | 29 9 35 |
| | NOV. . | 3 6 22 | 2 18 27 | | | 28 23 0 | 28 20 31 |
| | DEC. . | 2 19 6 | 2 10 40 | | | | |
| 108. | JAN. . | (1 7 50) | 1 5 4 | 111. | ○ | (12 17 22) | 13 2 54 |
| R.A. | FEB. . | (30 20 34) | 30 23 55 | R. | JAN. . | (27 11 44) | 27 7 37 |
| | ○ | 15 8 41 | 15 2 11 | 22 19 0 | FEB. . | 26 0 20 | 25 19 8 |
| 22 1 31 | MAR. . | (29 22 8) | 30 0 42 | | MAR. . | 27 13 13 | 27 7 25 |
| | APRIL . | 28 10 47 | 28 22 53 | | APRIL . | 26 1 57 | 25 20 46 |
| | MAY . | 27 23 31 | 28 0 25 | | MAY . | 25 14 41 | 25 11 17 |
| | JUNE . | 26 12 15 | 26 18 8 | | JUNE . | 24 3 25 | 24 2 35 |
| | JULY . | 25 0 59 | 25 1 47 | | ○ | (8 21 47) | 8 17 0 |
| | AUG. . | 24 13 43 | 24 0 40 | | JULY . | (23 16 9) | 23 18 6 |
| | ○ | (8 8 5) | 8 6 10 | | AUG. . | 22 4 53 | 22 9 10 |
| | SEPT. . | (23 2 27) | 23 18 34 | | SEPT. . | 20 17 37 | 20 23 22 |
| | OCT. . | 22 15 11 | 22 5 7 | | OCT. . | 20 6 21 | 20 12 36 |
| | NOV. . | 21 3 55 | 20 17 39 | | NOV. . | 18 19 5 | 19 0 53 |
| | DEC. . | 20 16 39 | 20 8 11 | | DEC. . | 18 7 49 | 18 12 17 |
| 109. | JAN. . | 19 5 23 | 19 0 25 | 112. | ○ | (2 2 11) | 2 2 34 |
| o. | FEB. . | 17 18 7 | 17 17 40 | D.O. | JAN. . | (16 20 33) | 16 22 54 |
| | ○ | (4 12 39) | 4 19 1 | 22 0 49 | FEB. . | 15 9 17 | 15 8 43 |
| 22 7 23 | MAR. . | (19 8 51) | 19 10 55 | | MAR. . | 15 22 1 | 15 18 24 |
| | APRIL . | 17 19 35 | 18 3 10 | | APRIL . | 14 10 45 | 14 4 18 |
| | MAY . | 17 8 19 | 17 17 37 | | MAY . | 13 23 29 | 13 15 18 |
| | JUNE . | 15 21 3 | 16 5 57 | | JUNE . | (12 12 13) | 12 4 0 |
| | JULY . | 15 9 47 | 15 16 23 | | ○ | (27 6 35) | 27 10 7 |
| | AUG. . | (13 23 31) | 14 1 49 | | JULY . | 12 0 57 | 11 18 35 |
| | ○ | (23 16 53) | 23 6 20 | | AUG. . | 10 18 41 | 10 10 41 |
| | SEPT. . | 12 11 15 | 12 10 55 | | SEPT. . | 9 2 25 | 9 3 31 |
| | OCT. . | 11 23 59 | 11 20 29 | | OCT. . | 8 15 9 | 8 20 10 |
| | NOV. . | 10 12 43 | 10 6 58 | | NOV. . | 7 3 53 | 7 11 52 |
| | DEC. . | 10 1 27 | 9 18 32 | | DEC. . | (6 16 37) | 7 2 1 |
| | | | | | ○ | (21 10 59) | 21 8 32 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 113. B. March. <i>d. h. m.</i> 22 6 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 116. F.E. March. <i>d. h. m.</i> 22 0 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 5 5 22 | 5 14 25 | | JAN. . | 2 20 32 | 3 0 15 |
| | FEB. . | 3 18 6 | 4 1 2 | | FEB. . | 1 9 16 | 1 18 50 |
| | MAR. . | 5 6 50 | 5 10 13 | | MAR. . | { 1 22 0 | 2 11 4 |
| | APRIL | 3 19 34 | 3 18 27 | | | { 31 10 44 | { 1 0 17 |
| | MAY . | 3 8 18 | 3 2 33 | | ○ | { 15 5 6 | { 14 22 23 |
| | JUNE . | { 1 21 2 | { 1 11 32 | | APRIL | { 29 23 28 | { 30 10 36 |
| | ○ | { 16 16 24 | { 17 1 14 | | MAY . | 29 12 12 | 29 18 47 |
| | JULY . | { 1 9 46 | { 30 22 20 | | JUNE . | 28 0 56 | 28 1 49 |
| | | { 30 22 30 | { 30 11 38 | | JULY . | 27 13 40 | 27 8 51 |
| | AUG. . | 29 11 14 | 29 3 28 | | AUG. . | 26 2 24 | 25 16 56 |
| | SEPT. . | 27 23 58 | 27 21 11 | | SEPT. . | 24 15 8 | 24 2 55 |
| | OCT. . | 27 12 42 | 27 15 40 | | ○ | { 9 9 30 | 9 15 41 |
| | NOV. . | 26 1 26 | 26 9 31 | | OCT. . | { 24 3 52 | 23 15 23 |
| | DEC. . | 25 14 10 | 26 1 36 | | NOV. . | 22 16 36 | 22 6 29 |
| | | | | | DEC. . | 22 5 20 | 21 23 50 |
| 114. A. 22 12 27 | JAN. . | 24 2 54 | 24 15 15 | 117. D. 22 5 53 | JAN. . | 20 18 4 | 20 18 24 |
| | FEB. . | 22 15 38 | 23 2 20 | | FEB. . | 19 6 48 | 19 12 47 |
| | MAR. . | 24 4 22 | 24 11 17 | | MAR. . | 20 19 32 | 21 5 41 |
| | APRIL | 22 17 6 | 22 18 49 | | APRIL | 19 8 16 | 19 20 9 |
| | MAY . | 22 5 50 | 22 1 49 | | MAY . | 18 21 0 | 19 7 57 |
| | JUNE . | 20 18 34 | 20 9 24 | | JUNE . | 17 9 44 | 17 17 31 |
| | JULY . | 20 7 18 | 19 18 40 | | JULY . | 16 22 28 | 17 1 42 |
| | AUG. . | 18 20 2 | 18 6 32 | | AUG. . | 15 11 12 | 15 9 35 |
| | SEPT. . | 17 8 46 | 16 21 26 | | SEPT. . | 13 23 56 | 13 18 4 |
| | OCT. . | { 16 21 30 | { 16 15 1 | | OCT. . | 13 12 40 | 13 3 53 |
| | ○ | { 31 15 52 | { 31 14 26 | | NOV. . | 12 1 24 | 11 15 27 |
| | NOV. . | 15 10 14 | 15 10 14 | | DEC. . | 11 14 8 | 11 4 57 |
| | DEC. . | 14 22 58 | 15 5 31 | | | | |
| 115. G. 22 18 16 | JAN. . | 13 11 43 | 13 23 14 | 118. C. 22 11 42 | JAN. . | 10 2 53 | 9 20 14 |
| | FEB. . | 12 0 27 | 12 14 16 | | FEB. . | { 8 15 37 | 8 12 49 |
| | MAR. . | 13 13 11 | 14 2 15 | | ○ | { 23 9 59 | 23 13 19 |
| | APRIL | { 12 1 55 | { 12 11 35 | | MAR. . | 10 4 21 | 10 5 56 |
| | ○ | { 26 20 17 | { 26 17 28 | | APRIL | 8 17 5 | 8 22 33 |
| | MAY . | 11 14 39 | 11 19 4 | | MAY . | 8 5 49 | 8 13 59 |
| | JUNE . | 10 3 23 | 10 1 43 | | JUNE . | 6 18 33 | 7 3 26 |
| | JULY . | 9 16 7 | 9 8 40 | | JULY . | 6 7 17 | 6 14 57 |
| | AUG. . | 8 4 51 | 7 16 59 | | AUG. . | { 4 20 1 | 5 1 1 |
| | SEPT. . | 6 17 35 | 6 3 39 | | ○ | { 19 14 23 | 19 2 13 |
| | OCT. . | { 6 6 19 | { 5 17 19 | | SEPT. . | 3 8 45 | 3 10 23 |
| | ○ | { 21 0 41 | { 21 5 31 | | OCT. . | 2 21 29 | 2 19 53 |
| | NOV. . | 4 19 3 | 4 9 55 | | NOV. . | { 1 10 13 | 1 6 1 |
| | DEC. . | 4 7 47 | 4 4 43 | | | { 30 22 57 | 30 17 4 |
| | | | | | DEC. . | 30 11 41 | 30 5 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Rel.) | True New Moon. (○ Full Rel.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Rel.) | True New Moon. (○ Full Rel.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 119. D. March d. h. m. 22 17 30 | JAN. . | d. h. m. 21 0 26 | d. h. m. 28 18 8 | A.D. 122. K. March. d. h. m. 22 10 57 | JAN. . | d. h. m. 25 15 36 | d. h. m. 26 0 15 |
| | FEB. . | (12 18 48 | 13 8 12 | | FEB. . | 24 4 20 | 24 9 57 |
| | MAR. . | 27 13 10 | 27 8 12 | | MAR. . | 25 17 4 | 25 18 22 |
| | APRIL . | 29 1 54 | 28 23 12 | | APRIL . | 24 5 48 | 24 2 14 |
| | MAY . | 27 14 38 | 27 15 46 | | MAY . | 23 18 32 | 23 10 29 |
| | JUNE . | 27 8 22 | 27 6 20 | | () | (7 12 54 | 7 22 29 |
| | JULY . | 25 16 6 | 25 21 10 | | JUNE . | (22 7 16 | 21 20 9 |
| | () | 8 23 12 | 8 10 1 | | JULY . | 21 20 0 | 21 8 9 |
| | AUG. . | (23 17 31 | 23 23 16 | | AUG. . | 20 8 44 | 19 22 47 |
| | SEPT. . | 22 6 18 | 22 10 47 | | SEPT. . | 18 21 28 | 18 15 49 |
| | OCT. . | 21 19 2 | 21 21 47 | | OCT. . | 18 10 12 | 18 10 17 |
| | NOV. . | 20 7 46 | 20 8 40 | | NOV. . | 16 22 56 | 17 4 47 |
| | DEC. . | 19 20 30 | 19 19 30 | | () | (1 17 18 | 1 9 22 |
| | | | | | DEC. . | (16 11 40 | 16 22 1 |
| 120. A.D. 21 23 19 | JAN. . | 18 9 14 | 18 6 21 | 123. D. 22 16 46 | JAN. . | 15 0 24 | 15 12 57 |
| | () | (2 8 39 | 2 15 25 | | FEB. . | 13 13 8 | 14 1 15 |
| | FEB. . | (16 21 58 | 16 17 23 | | MAR. . | 15 1 52 | 15 11 4 |
| | MAR. . | 17 10 42 | 17 4 56 | | APRIL . | 13 14 36 | 13 19 8 |
| | APRIL . | 15 23 26 | 15 17 27 | | MAY . | (13 3 20 | 13 2 4 |
| | MAY . | 15 12 10 | 15 7 11 | | () | (27 21 42 | 28 3 37 |
| | JUNE . | 14 0 54 | 13 22 5 | | JUNE . | 11 16 4 | 11 9 8 |
| | JULY . | (13 13 38 | 13 13 40 | | JULY . | 11 4 48 | 10 17 25 |
| | () | (24 8 0 | 24 0 27 | | AUG. . | 9 17 32 | 9 8 54 |
| | AUG. . | 12 2 22 | 12 5 13 | | SEPT. . | 8 6 16 | 7 17 20 |
| | SEPT. . | 10 15 6 | 10 20 12 | | OCT. . | 7 19 0 | 7 9 46 |
| | OCT. . | 10 8 50 | 10 10 12 | | NOV. . | (6 7 44 | 6 4 28 |
| | NOV. . | 8 16 31 | 8 23 10 | | () | (21 2 6 | 21 0 14 |
| | DEC. . | 8 5 18 | 8 11 8 | | DEC. . | 5 20 28 | 5 23 59 |
| 121. F. 22 5 8 | JAN. . | 6 18 8 | 6 22 7 | 124. C.H. 21 22 33 | JAN. . | 4 9 18 | 4 18 42 |
| | FEB. . | 5 8 47 | 5 8 11 | | FEB. . | 2 21 57 | 3 11 7 |
| | MAR. . | 6 19 31 | 6 17 38 | | MAR. . | 3 10 41 | 4 0 34 |
| | APRIL . | 5 8 12 | 5 8 8 | | APRIL . | 1 23 25 | 2 11 8 |
| | MAY . | 4 20 50 | 4 18 11 | | MAY . | (1 12 9 | 1 19 15 |
| | JUNE . | 3 9 48 | 3 0 47 | | () | (31 0 53 | 31 2 10 |
| | JULY . | 2 22 27 | 2 14 23 | | JUNE . | 29 18 37 | 29 8 49 |
| | AUG. . | (1 11 11 | 1 5 52 | | JULY . | 29 2 21 | 28 16 24 |
| | () | (30 23 55 | 30 22 37 | | AUG. . | 27 15 5 | 27 1 52 |
| | SEPT. . | 29 12 39 | 29 15 45 | | SEPT. . | 26 8 40 | 25 14 5 |
| | OCT. . | 29 1 23 | 29 8 16 | | OCT. . | 25 16 33 | 25 5 13 |
| | NOV. . | 27 14 7 | 27 23 26 | | NOV. . | 24 5 17 | 23 23 9 |
| | () | (12 8 29 | 11 23 30 | | DEC. . | 23 18 1 | 23 18 23 |
| | DEC. . | (27 2 51 | 27 12 47 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 125. A. March. d. h. m. 22 4 23 | JAN. . | d. h. m. 22 6 46 | d. h. m. 22 13 38 | A.D. 128. E.D. March. d. h. m. 21 21 50 | JAN. . | d. h. m. 19 21 55 | d. h. m. 19 15 41 |
| | FEB. . | 20 19 30 | 21 7 5 | | FEB. . | 18 10 39 | 18 4 57 |
| | MAR. . | 22 8 14 | 22 21 45 | | MAR. . | 18 23 23 | 18 19 12 |
| | ○ | { 6 2 36 | 5 20 25 | | APRIL | 17 12 7 | 17 10 19 |
| | APRIL | { 20 20 53 | 21 9 26 | | MAY . | 17 0 51 | 17 1 49 |
| | MAY . | 20 9 42 | 20 18 33 | | JUNE . | 15 18 35 | 15 17 7 |
| | JUNE . | 18 22 26 | 19 2 4 | | JULY . | 15 2 19 | 15 7 33 |
| | JULY . | 18 11 10 | 18 9 4 | | AUG. . | 13 15 3 | 13 20 51 |
| | AUG. . | 16 23 54 | 16 16 40 | | SEPT. . | 12 3 47 | 12 9 4 |
| | SEPT. . | { 15 12 38 | 15 1 44 | | OCT. . | 11 16 31 | 11 20 34 |
| | ○ | { 30 7 0 | 30 12 1 | | NOV. . | 10 5 15 | 10 7 39 |
| | OCT. . | 15 1 22 | 14 13 0 | | DEC. . | 9 17 59 | 9 18 33 |
| | NOV. . | 13 14 6 | 13 2 50 | | | | |
| | DEC. . | 13 2 50 | 12 19 3 | | | | |
| 126. G. 22 10 12 | JAN. . | 11 15 34 | 11 13 0 | 129. C. 22 3 39 | JAN. . | { 8 6 44 | 8 5 20 |
| | FEB. . | 10 4 18 | 10 7 26 | | ○ | { 23 1 6 | 23 10 48 |
| | MAR. . | { 11 17 2 | 12 1 3 | | FEB. . | 6 19 28 | 6 16 3 |
| | ○ | { 26 11 24 | 26 10 5 | | MAR. . | 8 8 12 | 8 3 0 |
| | APRIL | 10 5 46 | 10 16 44 | | APRIL | 6 20 56 | 6 14 40 |
| | MAY . | 9 18 30 | 10 5 51 | | MAY . | 6 9 40 | 6 3 33 |
| | JUNE . | 8 7 14 | 8 16 31 | | JUNE . | 4 22 24 | 4 17 46 |
| | JULY . | 7 19 58 | 8 1 24 | | JULY . | { 4 11 8 | 4 9 5 |
| | AUG. . | 6 8 42 | 6 9 30 | | ○ | { 19 5 30 | 19 0 34 |
| | SEPT. . | { 4 21 26 | 4 17 47 | | AUG. . | 2 23 52 | 3 0 54 |
| | ○ | { 19 15 43 | 19 13 28 | | SEPT. . | 1 12 36 | 1 16 29 |
| | OCT. . | 4 10 10 | 4 3 3 | | OCT. . | { 1 1 20 | 1 7 19 |
| | NOV. . | 2 22 54 | 2 13 49 | | | { 30 14 4 | 30 21 5 |
| | DEC. . | { 2 11 38 | 2 2 18 | | NOV. . | 29 2 48 | 29 9 43 |
| | | { ... | 31 16 34 | | DEC. . | 28 15 32 | 28 21 11 |
| 127. F. 22 16 1 | JAN. . | { 1 0 22 | ... | 130. B. 22 9 28 | ○ | { 12 9 55 | 12 10 24 |
| | FEB. . | { 30 13 6 | 30 8 19 | | JAN. . | { 27 4 17 | 27 7 35 |
| | | { ... | ... | | FEB. . | 25 17 1 | 25 17 7 |
| | MAR. ○ | { 1 1 51 | 1 1 2 | | MAR. . | 27 5 45 | 27 2 12 |
| | | { 15 20 13 | 16 2 46 | | APRIL | 25 18 29 | 25 11 37 |
| | APRIL | 29 3 19 | 29 9 51 | | MAY . | 25 7 13 | 24 22 13 |
| | MAY . | 23 16 3 | 29 0 13 | | JUNE . | 23 19 57 | 23 10 42 |
| | JUNE . | 27 4 47 | 27 12 53 | | ○ | { 8 14 19 | 8 17 35 |
| | JULY . | 26 17 31 | 26 23 43 | | JULY . | { 23 8 41 | 23 1 16 |
| | AUG. . | 25 6 15 | 25 9 41 | | AUG. . | 21 21 25 | 21 17 37 |
| | ○ | { 9 0 37 | 8 13 33 | | SEPT. . | 20 10 9 | 20 10 55 |
| | SEPT. . | { 23 18 59 | 23 19 16 | | OCT. . | 19 22 53 | 20 4 7 |
| | OCT. . | 23 7 43 | 23 5 14 | | NOV. . | 18 11 37 | 18 20 17 |
| | NOV. . | 21 20 27 | 21 15 53 | | DEC. . | 18 0 21 | 18 10 41 |
| | DEC. . | 21 9 11 | 21 3 20 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 131. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 134. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | ○ | { 1 18 43 | 1 11 46 | D. | JAN. . | 13 4 15 | 13 8 4 |
| March. | JAN. . | { 16 13 5 | 16 23 4 | March. | FEB. . | 11 16 59 | 12 2 25 |
| <i>d. h. m.</i> | FEB. . | 15 1 49 | 15 9 30 | <i>d. h. m.</i> | MAR. . | 13 5 43 | 13 18 28 |
| 22 15 16 | MAR. . | 16 14 33 | 16 18 18 | 22 8 43 | APRIL | { 11 18 27 | 12 7 34 |
| | APRIL | 15 3 17 | 15 2 9 | ○ | { 26 12 49 | 26 5 31 | |
| | MAY . | 14 16 1 | 14 9 54 | MAY . | 11 7 11 | 11 17 53 | |
| | JUNE . | { 13 4 45 | 12 18 37 | JUNE . | 9 19 55 | 10 2 5 | |
| | ○ | { 27 23 7 | 28 7 16 | JULY . | 9 8 39 | 9 9 19 | |
| | JULY . | 12 17 29 | 12 5 19 | AUG. . | 7 21 23 | 7 16 38 | |
| | AUG. . | 11 6 13 | 10 18 39 | SEPT. . | 6 10 7 | 6 1 1 | |
| | SEPT. . | 9 18 57 | 9 10 40 | OCT. . | { 5 22 51 | 5 11 15 | |
| | OCT. . | 9 7 41 | 9 4 44 | ○ | { 20 17 13 | 20 23 47 | |
| | NOV. . | 7 20 25 | 7 23 34 | NOV. . | 4 11 35 | 3 23 49 | |
| | DEC. . | 7 9 9 | 7 17 45 | DEC. . | 4 0 19 | 3 14 50 | |
| 132. | JAN. . | 5 21 54 | 6 9 59 | 135. | JAN. . | 2 13 3 | 2 7 54 |
| G.F. | FEB. . | 4 10 38 | 4 23 35 | C. | FEB. . | 1 1 47 | 1 2 2 |
| 21 21 5 | MAR. . | 4 23 22 | 5 10 29 | 22 14 32 | MAR. . | 2 14 32 | 2 20 3 |
| | APRIL | 3 12 6 | 3 19 8 | | APRIL | { 1 3 16 | 1 12 41 |
| | MAY . | 3 0 50 | 3 2 24 | | { 30 16 0 | { 1 3 3 | |
| | JUNE . | 1 13 34 | { 1 9 13 | | MAY . | 30 4 44 | { 30 14 57 |
| | ○ | { 1 2 18 | { 30 16 43 | | JUNE . | 28 17 28 | 29 0 45 |
| | JULY . | { 30 15 2 | 30 2 1 | | JULY . | 28 6 12 | 28 9 18 |
| | AUG. . | 29 3 46 | 28 14 0 | | AUG. . | 26 18 56 | 26 17 34 |
| | SEPT. . | 27 16 30 | 27 5 2 | | SEPT. . | 25 7 40 | 25 2 28 |
| | OCT. . | 27 5 14 | 26 22 50 | | OCT. . | 24 20 24 | 24 12 35 |
| | ○ | { 10 23 36 | 10 23 19 | | NOV. . | 23 9 8 | 23 0 12 |
| | NOV. . | { 25 17 58 | 25 18 13 | | DEC. . | 22 21 52 | 22 13 31 |
| | DEC. . | 25 6 42 | 25 13 33 | | | | |
| 133. | JAN. . | 28 19 27 | 24 7 15 | 136. | JAN. . | 21 10 37 | 21 4 21 |
| E. | FEB. . | 22 8 11 | 22 22 9 | B.A. | FEB. . | 19 23 21 | 19 20 22 |
| 22 2 54 | MAR. . | 28 20 55 | 24 9 59 | | ○ | { 5 17 43 | 6 2 35 |
| | APRIL | 22 9 39 | 22 19 10 | 21 20 21 | MAR. . | { 20 12 5 | 20 12 59 |
| | ○ | { 7 4 1 | 7 0 6 | | APRIL | 19 0 49 | 19 5 19 |
| | MAY . | { 21 22 23 | 22 2 32 | | MAY . | 18 13 33 | 18 20 36 |
| | JUNE . | 20 11 7 | 20 9 10 | | JUNE . | 17 2 17 | 17 10 13 |
| | JULY . | 19 23 51 | 19 16 13 | | JULY . | 16 15 1 | 16 22 6 |
| | AUG. . | 18 12 35 | 18 0 43 | | AUG. . | { 15 3 45 | 15 8 38 |
| | SEPT. . | 17 1 19 | 16 11 35 | | ○ | { 29 22 7 | 29 9 31 |
| | OCT. . | { 16 14 3 | 16 1 21 | | SEPT. . | 13 16 29 | 13 18 33 |
| | ○ | { 31 8 25 | 31 14 9 | | OCT. . | 13 5 13 | 13 4 31 |
| | NOV. . | 15 2 47 | 14 18 0 | | NOV. . | 11 17 57 | 11 14 54 |
| | DEC. . | 14 15 31 | 14 12 44 | | DEC. . | 11 6 41 | 11 1 58 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 137. G. March. d. h. m. 22 2 9 | | d. h. m. | d. h. m. | A.D. 140. D.C. March. d. h. m. 21 19 36 | | d. h. m. | d. h. m. |
| | JAN. . | 9 19 25 | 9 13 43 | | JAN. . | 7 10 35 | 7 21 28 |
| | FEB. . | { 8 8 9 | 8 2 15 | | FEB. . | 5 23 19 | 6 8 46 |
| | ○ | { 23 2 31 | 23 16 13 | | MAR. . | 6 12 8 | 6 18 10 |
| | MAR. . | 9 20 53 | 9 15 43 | | APRIL | 5 0 47 | 5 2 12 |
| | APRIL | 8 9 37 | 8 6 9 | | MAY . | 4 13 31 | 4 9 42 |
| | MAY . | 7 22 21 | 7 21 20 | | JUNE . | { 3 2 15 | 2 17 40 |
| | JUNE . | 6 11 5 | 6 12 46 | | ○ | { 17 20 37 | 18 5 24 |
| | JULY . | 5 23 49 | 6 3 47 | | JULY . | 2 14 59 | { 2 3 12 |
| | AUG. . | { 4 12 33 | 4 17 54 | | AUG. . | { 1 3 43 | { 31 15 9 |
| | ○ | { 19 6 55 | 18 17 37 | | SEPT. . | { 30 16 27 | 30 5 57 |
| | SEPT. . | 3. 1 17 | 3 6 55 | | OCT. . | 29 5 11 | 28 23 16 |
| | OCT. . | 2 14 1 | 2 19 2 | | NOV. . | 28 17 55 | 28 18 5 |
| | NOV. . | { 1 2 45 | 1 6 31 | | ○ | 27 6 39 | 27 12 55 |
| | DEC. . | { 30 15 29 | 30 17 36 | | DEC. . | { 12 1 1 | 11 18 10 |
| | | 30 4 13 | 30 4 24 | | | { 26 19 23 | 27 6 19 |
| 138. F. 22 7 58 | JAN. . | 23 16 58 | 23 14 59 | 141. B. 22 1 25 | JAN. . | 23 8 7 | 25 21 16 |
| | ○ | { 12 11 20 | 12 23 9 | | FEB. . | 23 20 51 | 24 9 24 |
| | FEB. . | { 27 5 42 | 27 1 30 | | MAR. . | 25 9 36 | 25 18 59 |
| | MAR. . | 23 18 26 | 23 12 28 | | APRIL | 23 22 20 | 24 2 43 |
| | APRIL | 27 7 10 | 27 0 25 | | MAY . | 23 11 4 | 23 9 31 |
| | MAY . | 26 19 54 | 26 13 47 | | ○ | { 7 5 26 | 7 10 9 |
| | JUNE . | 25 8 38 | 25 4 34 | | JUNE . | { 21 23 48 | 21 16 30 |
| | JULY . | 24 21 22 | 24 20 18 | | JULY . | 21 12 32 | 21 0 47 |
| | ○ | { 8 15 44 | 8 8 13 | | AUG. . | 20 1 16 | 19 11 23 |
| | AUG. . | { 23 10 6 | 23 12 19 | | SEPT. . | 18 14 0 | 18 0 57 |
| | SEPT. . | 21 22 50 | 22 3 53 | | OCT. . | 18 2 44 | 17 17 33 |
| | OCT. . | 21 11 34 | 21 18 30 | | NOV. . | 16 15 28 | 16 12 28 |
| | NOV. . | 20 0 18 | 20 7 54 | | ○ | { 1 9 50 | 1 9 13 |
| | DEC. . | 19 13 2 | 19 20 2 | | DEC. . | { 16 4 12 | 16 7 59 |
| 139. E. 22 13 47 | JAN. . | 18 1 47 | 18 6 55 | 142. A. 22 7 14 | JAN. . | 14 16 56 | 15 2 40 |
| | FEB. . | 16 14 31 | 16 16 39 | | FEB. . | 13 5 40 | 13 18 59 |
| | MAR. . | 13 3 15 | 13 1 39 | | MAR. . | 14 18 24 | 15 8 17 |
| | APRIL | 16 15 59 | 16 10 34 | | APRIL | 13 7 8 | 13 18 33 |
| | MAY . | 16 4 43 | 15 20 15 | | MAY . | { 12 19 52 | 13 2 42 |
| | JUNE . | 14 17 27 | 14 7 35 | | ○ | { 27 14 14 | 27 10 43 |
| | JULY . | 14 6 11 | 13 21 4 | | JUNE . | 11 8 36 | 11 9 34 |
| | AUG. . | 12 18 55 | 12 12 41 | | JULY . | 10 21 20 | 10 16 20 |
| | SEPT. . | 11 7 39 | 11 5 50 | | AUG. . | 9 10 4 | 9 0 5 |
| | OCT. . | 10 20 23 | 10 23 28 | | SEPT. . | 7 22 48 | 7 9 46 |
| | NOV. . | 9 9 7 | 9 16 31 | | OCT. . | 7 11 32 | 6 22 8 |
| | DEC. . | { 8 21 51 | 9 8 1 | | NOV. . | 6 0 16 | 5 13 26 |
| | ○ | { 23 16 13 | 23 7 54 | | DEC. . | 5 13 0 | 5 7 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 143. G. March. d. h. m. 22 13 2 | JAN. . | d. h. m. 4 1 45 | d. h. m. 4 2 21 | A.D. 146. C. March. d. h. m. 22 6 29 | JAN. . | d. h. m. 30 5 39 | d. h. m. 30 0 4 |
| | FEB. . | 2 14 29 | 2 21 16 | | FEB. . | 23 18 23 | 23 12 46 |
| | MAR. . | 4 3 13 | 4 14 30 | | MAR. . | 30 7 7 | 30 2 23 |
| | APRIL | { 2 15 57 | 3 5 2 | | APRIL | 23 19 51 | 23 17 1 |
| | ○ | { 17 10 19 | 17 3 46 | | MAY . | 23 8 35 | 23 8 17 |
| | MAY . | { 2 4 41 | 2 16 38 | | JUNE . | 23 21 19 | 26 23 37 |
| | | { 31 17 25 | { 1 1 48 | | JULY . | 26 10 3 | 26 14 25 |
| | JUNE . | 30 6 9 | { 30 9 29 | | AUG. . | 24 22 47 | 25 4 16 |
| | JULY . | 29 18 53 | 29 16 46 | | SEPT. . | 23 11 31 | 23 17 7 |
| | AUG. . | 23 7 37 | 28 0 40 | | OCT. . | 23 0 15 | 23 5 7 |
| | SEPT. . | 26 20 21 | 26 10 2 | | NOV. . | 21 12 59 | 21 16 33 |
| | ○ | { 11 14 43 | 11 19 52 | | DEC. . | 21 1 43 | 21 3 32 |
| | OCT. . | { 26 9 5 | 25 21 29 | | | | |
| | NOV. . | 24 21 49 | 24 11 17 | 147. B. | JAN. . | 19 14 27 | 19 14 5 |
| | DEC. . | 24 10 33 | 24 3 17 | | ○ | { 3 8 49 | 3 18 31 |
| 144. F.E. 21 18 51 | JAN. . | 22 23 18 | 22 20 49 | 22 12 18 | FEB. . | { 18 3 11 | 18 0 21 |
| | FEB. . | 21 12 2 | 21 14 51 | | MAR. . | 19 15 56 | 19 10 46 |
| | MAR. . | 22 0 46 | 22 8 7 | | APRIL | 18 4 40 | 17 21 53 |
| | ○ | { 5 19 8 | 5 17 52 | | MAY . | 17 17 24 | 17 10 18 |
| | APRIL | { 20 13 30 | 20 23 36 | | JUNE . | 16 6 8 | 16 0 17 |
| | MAY . | 20 2 14 | 20 12 45 | | JULY . | { 15 18 52 | 15 15 39 |
| | JUNE . | 18 14 58 | 18 23 37 | | ○ | { 30 13 14 | 30 8 16 |
| | JULY . | 18 3 42 | 18 8 50 | | AUG. . | 14 7 36 | 14 7 48 |
| | AUG. . | 16 16 26 | 16 17 21 | | SEPT. . | 12 20 20 | 12 23 55 |
| | SEPT. . | { 15 5 10 | 15 2 4 | | OCT. . | 12 9 4 | 12 15 22 |
| | ○ | { 29 23 32 | 29 21 5 | | NOV. . | 10 21 48 | 11 5 38 |
| | OCT. . | 14 17 54 | 14 11 41 | | DEC. . | 10 10 32 | 10 18 32 |
| | NOV. . | 13 6 33 | 12 22 35 | | | | |
| | DEC. . | 12 19 22 | 12 11 0 | 148. A.G. | JAN. . | { 8 23 16 | 9 6 1 |
| 145. D. 22 0 40 | JAN. . | 11 8 6 | 11 0 55 | 21 18 7 | ○ | { 23 17 33 | 23 18 8 |
| | FEB. . | 9 20 50 | 9 16 8 | | FEB. . | 7 12 0 | 7 16 10 |
| | MAR. . | { 11 9 34 | 11 8 15 | | MAR. . | 8 0 44 | 8 1 16 |
| | ○ | { 26 3 56 | 26 10 44 | | APRIL | 6 13 28 | 6 9 54 |
| | APRIL | 9 22 18 | 10 0 36 | | MAY . | 6 2 12 | 5 13 51 |
| | MAY . | 9 11 2 | 9 16 24 | | JUNE . | 4 14 56 | 4 5 6 |
| | JUNE . | 7 23 46 | 8 6 56 | | JULY . | { 4 3 40 | 3 17 24 |
| | JULY . | 7 12 30 | 7 19 49 | | ○ | { 18 22 2 | 19 1 6 |
| | AUG. . | 6 1 14 | 6 7 12 | | AUG. . | 2 16 24 | 2 8 2 |
| | SEPT. . | { 4 13 58 | 4 17 37 | | SEPT. . | { 1 5 8 | 1 0 39 |
| | ○ | { 19 8 20 | 18 21 5 | | | { 30 17 52 | 30 18 25 |
| | OCT. . | 4 2 42 | 4 3 44 | | OCT. . | 30 6 36 | 30 12 8 |
| | NOV. . | 2 15 26 | 2 14 2 | | NOV. . | 28 19 20 | 29 4 41 |
| | DEC. . | { 2 4 10 | 2 0 49 | | DEC. . | 28 8 4 | 28 19 13 |
| | | { 31 16 54 | 31 12 8 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|-------------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| A.D. 149. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 152. C.B. March. <i>d. h. m.</i> 21 17 22 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 21 23 55 | ○ JAN. . | { 12 2 26 | 11 19 55 | JAN. . | 24 11 59 | 24 15 47 | |
| | FEB. . | { 26 20 48 | 27 7 38 | FEB. . | 23 0 43 | 23 9 53 | |
| | MAR. . | 25 9 32 | 25 17 48 | MAR. . | 23 13 27 | 24 1 45 | |
| | APRIL | 26 22 17 | 27 2 17 | APRIL | 22 2 11 | 22 14 45 | |
| | MAY . | 25 11 1 | 25 9 45 | ○ | { 6 20 33 | 6 12 37 | |
| | JUNE . | 24 23 45 | 24 17 13 | MAY . | { 21 14 55 | 22 1 5 | |
| | ○ | 23 12 29 | 23 1 45 | JUNE . | 20 8 39 | 20 9 26 | |
| | JULY . | { 8 6 51 | 8 14 23 | JULY . | 19 16 23 | 19 16 55 | |
| | AUG. . | { 23 1 13 | 22 12 23 | AUG. . | 18 5 7 | 18 0 34 | |
| | SEPT. . | 21 13 57 | 21 1 48 | SEPT. . | 16 17 51 | 16 9 16 | |
| | OCT. . | 20 2 41 | 19 18 2 | OCT. . | { 16 6 35 | 15 19 44 | |
| | NOV. . | 19 15 25 | 19 12 25 | ○ | { 31 0 57 | 31 7 59 | |
| | DEC. . | 18 4 9 | 18 7 34 | NOV. . | 14 19 19 | 14 8 22 | |
| | | 17 16 53 | 18 1 58 | DEC. . | 14 8 3 | 13 23 14 | |
| 150. E. | JAN. . | 16 5 38 | 16 18 17 | 153. A. | JAN. . | 12 20 48 | 12 15 55 |
| 22 5 44 | FEB. . | 14 18 22 | 15 7 46 | 21 23 11 | FEB. . | 11 9 32 | 11 9 37 |
| | MAR. . | 16 7 6 | 16 18 27 | | MAR. . | 12 22 16 | 13 8 12 |
| | APRIL | 14 19 50 | 15 2 52 | | APRIL | { 11 11 0 | 11 19 33 |
| | MAY . | 14 8 34 | 14 9 54 | ○ | { 26 5 22 | 26 1 37 | |
| | JUNE . | 12 21 18 | 12 16 39 | MAY . | 10 23 44 | 11 9 52 | |
| | JULY . | 12 10 2 | 12 0 8 | JUNE . | 9 12 23 | 9 21 54 | |
| | AUG. . | 10 22 46 | 10 9 30 | JULY . | 9 1 12 | 9 8 1 | |
| | SEPT. . | 9 11 30 | 8 21 36 | AUG. . | 7 13 56 | 7 16 59 | |
| | OCT. . | 9 0 14 | 8 12 49 | SEPT. . | 6 2 40 | 6 1 43 | |
| | NOV. . | { 7 12 58 | 7 6 44 | OCT. . | 5 15 24 | 5 11 0 | |
| | ○ | { 22 7 20 | 22 8 16 | NOV. . | 4 4 8 | 3 21 21 | |
| | DEC. . | 7 1 42 | 7 2 12 | DEC. . | 3 16 52 | 3 9 2 | |
| 151. D. | JAN. . | 5 14 26 | 5 21 31 | 154. G. | JAN. . | { 2 5 36 | 1 22 8 |
| 22 11 33 | FEB. . | 4 3 10 | 4 15 6 | 22 5 0 | { 31 18 20 | 31 12 24 | |
| | MAR. . | 5 15 54 | 6 5 53 | | FEB. . | ... | ... |
| | APRIL | 4 4 38 | 4 17 33 | | ○ | { 2 7 4 | 2 3 49 |
| | MAY . | { 3 17 22 | 4 2 36 | | MAR. ○ | { 17 1 26 | 17 10 31 |
| | ○ | { 18 11 44 | 18 6 33 | | | { 31 19 48 | 31 19 54 |
| | JUNE . | 2 6 6 | 2 9 56 | | APRIL | 30 8 32 | 30 11 55 |
| | JULY . | { 1 13 50 | 1 16 39 | | MAY . | 29 21 16 | 30 3 8 |
| | | { 31 7 34 | 30 23 52 | | JUNE . | 23 10 0 | 23 16 58 |
| | AUG. . | 29 20 18 | 29 8 35 | | JULY . | 27 22 44 | 28 5 17 |
| | SEPT. . | 23 9 2 | 27 19 39 | | AUG. . | 26 11 23 | 26 16 23 |
| | OCT. . | 27 21 46 | 27 9 32 | | SEPT. . | 25 0 12 | 25 2 50 |
| | ○ | { 11 16 8 | 11 22 49 | | OCT. . | 24 12 56 | 24 13 12 |
| | NOV. . | { 26 10 30 | 26 2 9 | | NOV. . | 23 1 40 | 22 23 50 |
| | DEC. . | 25 23 14 | 25 20 41 | | DEC. . | 22 14 24 | 22 10 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| A.D. 155. F. March. d. h. m. 22 10 48 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 158. B. March. d. h. m. 22 4 15 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 3 9 | 20 22 19 | ○ | { 2 23 57 | 2 16 17 | |
| | FEB. . | 19 15 53 | 19 10 18 | JAN. . | { 17 18 19 | 18 6 3 | |
| | ○ | { 6 10 15 | 7 0 6 | FEB. . | 16 7 3 | 16 17 10 | |
| | MAR. . | { 21 4 37 | 20 23 9 | MAR. . | 17 19 47 | 18 2 14 | |
| | APRIL | 19 17 21 | 19 13 1 | APRIL | 16 8 31 | 16 9 55 | |
| | MAY . | 19 6 5 | 19 3 51 | MAY . | 15 21 15 | 15 17 8 | |
| | JUNE . | 17 18 49 | 17 19 12 | JUNE . | { 14 9 59 | 14 0 55 | |
| | JULY . | 17 7 33 | 17 10 28 | ○ | { 29 4 21 | 29 12 21 | |
| | AUG. . | { 15 20 17 | 16 1 5 | JULY . | 13 22 43 | 13 10 21 | |
| | ○ | { 30 14 39 | 30 1 33 | AUG. . | 12 11 27 | 11 22 20 | |
| | SEPT. . | 14 9 1 | 14 14 43 | SEPT. . | 11 0 11 | 10 13 17 | |
| | OCT. . | 13 21 45 | 14 3 24 | OCT. . | 10 12 55 | 10 6 51 | |
| | NOV. . | 12 10 29 | 12 15 19 | NOV. . | 9 1 39 | 9 1 56 | |
| | DEC. . | 11 23 13 | 12 2 37 | DEC. . | { 8 14 23 | 8 21 1 | |
| | | | | ○ | { 23 8 45 | 23 3 0 | |
| 156. E.D. 21 16 37 | JAN. . | 10 11 57 | 10 13 16 | 159. A. 22 10 4 | JAN. . | 7 3 7 | 7 14 32 |
| | FEB. . | { 9 0 41 | 8 23 28 | FEB. . | 5 15 51 | 6 5 28 | |
| | ○ | { 23 19 3 | 24 6 42 | MAR. . | 7 4 35 | 7 17 25 | |
| | MAR. . | 9 13 25 | 9 9 28 | APRIL | 5 17 19 | 6 2 45 | |
| | APRIL | 8 2 9 | 7 19 52 | MAY . | 5 6 3 | 5 10 16 | |
| | MAY . | 7 14 53 | 7 7 20 | JUNE . | { 3 18 47 | 3 16 57 | |
| | JUNE . | 6 3 37 | 5 20 23 | ○ | { 18 13 9 | 18 16 38 | |
| | JULY . | 5 16 21 | 5 11 5 | JULY . | 3 7 31 | 2 23 55 | |
| | AUG. . | { 4 5 5 | 4 3 3 | AUG. . | { 1 20 15 | 1 8 16 | |
| | ○ | { 18 23 27 | 18 16 6 | SEPT. . | 31 8 59 | 30 18 59 | |
| | SEPT. . | 2 17 49 | 2 19 31 | OCT. . | 29 21 43 | 29 8 43 | |
| | OCT. . | { 2 6 33 | 2 11 40 | NOV. . | 29 10 27 | 29 1 26 | |
| | NOV. . | { 31 19 17 | { 1 2 51 | ○ | 27 23 11 | 27 20 20 | |
| | DEC. . | 30 8 1 | { 30 16 38 | DEC. . | { 12 17 33 | 12 18 11 | |
| | | 29 20 45 | 30 4 52 | | { 27 11 55 | 27 15 56 | |
| 157. C. 21 22 26 | JAN. . | 23 9 30 | 23 15 35 | 160. G.F. 21 15 53 | JAN. . | 26 0 40 | 26 10 31 |
| | FEB. . | 26 22 14 | 27 0 58 | FEB. . | 24 13 24 | 25 2 43 | |
| | MAR. . | 23 10 58 | 23 9 30 | MAR. . | 25 2 8 | 25 15 53 | |
| | APRIL | 26 23 42 | 26 17 58 | APRIL | 23 14 52 | 24 2 5 | |
| | MAY . | 26 12 26 | 26 3 18 | MAY . | 23 3 36 | 23 10 7 | |
| | JUNE . | 25 1 10 | 24 14 24 | ○ | { 6 21 58 | 6 17 18 | |
| | JULY . | 24 13 54 | 24 3 50 | JUNE . | { 21 16 20 | 21 17 2 | |
| | AUG. . | 23 2 38 | 22 19 39 | JULY . | 21 5 4 | 20 23 57 | |
| | SEPT. . | 21 15 22 | 21 13 10 | AUG. . | 19 17 48 | 19 7 56 | |
| | OCT. . | 21 4 6 | 21 7 17 | SEPT. . | 18 6 32 | 17 17 50 | |
| | NOV. . | 19 16 50 | 20 0 46 | OCT. . | 17 19 16 | 17 6 21 | |
| | DEC. . | 19 5 34 | 19 16 31 | NOV. . | 16 8 0 | 15 21 40 | |
| | | | | DEC. . | 15 20 44 | 15 15 18 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 161. E. March. d. h. m. 21 21 41 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 164. B.A. March. d. h. m. 21 15 7 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 14 9 29 | 14 10 10 | | JAN. . | 12 0 39 | 11 20 53 |
| | FEB. . | 12 22 13 | 13 4 47 | | FEB. . | 10 13 23 | 10 8 21 |
| | MAR. . | 14 10 57 | 14 21 46 | | MAR. . | 11 2 7 | 10 20 26 |
| | APRIL . | 12 23 41 | 13 12 10 | | APRIL . | 9 14 51 | 9 9 28 |
| | MAY . | 12 12 25 | 12 23 46 | | MAY . | 9 3 35 | 8 23 38 |
| | JUNE . | 11 1 9 | 11 9 4 | | JUNE . | 7 16 19 | 7 14 43 |
| | JULY . | 10 13 53 | 10 16 58 | | JULY . | 7 5 3 | 7 6 11 |
| | AUG. . | 9 2 37 | 9 0 31 | | AUG. . | 5 17 47 | 5 21 22 |
| | SEPT. . | 7 15 21 | 7 8 48 | | SEPT. . | 4 6 31 | 4 11 48 |
| | OCT. . | 7 4 5 | 6 18 29 | | OCT. . | 3 19 15 | 4 1 15 |
| | ○ | 21 22 27 | 22 3 51 | | NOV. . | 2 7 59 | 2 13 47 |
| | NOV. . | 5 16 49 | 5 6 5 | | DEC. . | 1 20 43 | 2 1 30 |
| | DEC. . | 5 5 33 | 4 19 49 | | | 31 9 27 | 31 12 27 |
| 162. D. 22 3 30 | JAN. . | 3 18 17 | 3 11 29 | 165. G. 21 20 56 | JAN. . | 29 22 11 | 29 22 45 |
| | FEB. . | 2 7 1 | 2 4 33 | | ○ | 13 16 33 | 14 2 8 |
| | MAR. . | 3 19 45 | 3 22 6 | | FEB. . | 23 10 55 | 28 8 33 |
| | APRIL { | 2 8 29 | 2 15 1 | | MAR. . | 29 23 39 | 29 18 24 |
| | ○ | 17 2 51 | 17 1 32 | | APRIL . | 23 12 23 | 28 4 59 |
| | MAY { | 1 21 13 | 2 6 21 | | MAY . | 28 1 7 | 27 17 0 |
| | | 31 9 57 | 31 19 35 | | JUNE . | 26 18 51 | 26 6 49 |
| | JUNE . | 29 22 41 | 30 6 43 | | JULY . | 26 2 35 | 25 22 17 |
| | JULY . | 29 11 25 | 29 16 20 | | ○ | 9 20 57 | 9 16 3 |
| | AUG. . | 28 0 9 | 28 1 18 | | AUG. . | 24 15 19 | 24 14 48 |
| | SEPT. . | 26 12 53 | 26 10 27 | | SEPT. . | 23 4 3 | 23 7 28 |
| | ○ | 11 7 15 | 11 4 30 | | OCT. . | 22 16 47 | 22 23 30 |
| | OCT. . | 26 1 37 | 25 20 23 | | NOV. . | 21 5 31 | 21 14 12 |
| | NOV. . | 24 14 21 | 24 7 26 | | DEC. . | 20 18 15 | 21 3 21 |
| | DEC. . | 24 3 5 | 23 19 42 | | | | |
| 163. C. 22 9 19 | JAN. . | 22 15 50 | 22 9 12 | 166. F. 22 2 45 | JAN. . | 19 7 0 | 19 14 46 |
| | FEB. . | 21 4 34 | 20 23 50 | | ○ | 3 1 22 | 3 1 47 |
| | MAR. . | 22 17 18 | 22 15 22 | | FEB. . | 17 19 44 | 18 0 37 |
| | ○ | 6 11 40 | 6 18 33 | | MAR. . | 19 8 28 | 19 9 18 |
| | APRIL { | 21 6 2 | 21 7 18 | | APRIL . | 17 21 12 | 17 17 29 |
| | MAY . | 20 18 46 | 20 22 55 | | MAY . | 17 9 56 | 17 2 4 |
| | JUNE . | 19 7 30 | 19 13 33 | | JUNE . | 15 22 40 | 15 12 2 |
| | JULY . | 18 20 14 | 19 2 48 | | JULY . | 15 11 24 | 15 0 14 |
| | AUG. . | 17 8 58 | 17 14 44 | | ○ | 30 5 46 | 30 8 42 |
| | SEPT. . | 15 21 42 | 16 1 42 | | AUG. . | 14 0 8 | 13 14 58 |
| | ○ | 30 16 4 | 30 4 44 | | SEPT. . | 12 12 52 | 12 7 53 |
| | OCT. . | 15 10 26 | 15 12 18 | | OCT. . | 12 1 36 | 12 2 3 |
| | NOV. . | 13 23 10 | 13 22 57 | | NOV. . | 10 14 20 | 10 20 13 |
| | DEC. . | 13 11 54 | 13 9 47 | | DEC. . | 10 3 4 | 10 13 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 167. E. March. d. h. m. 22 8 34 | | d. h. m. | d. h. m. | A.D. 170. A. March. d. h. m. 22 2 0 | | d. h. m. | d. h. m. |
| | JAN. . | { 8 15 48 | 9 3 50 | | JAN. . | 5 6 58 | 5 4 18 |
| | ○ | { 23 10 10 | 23 4 2 | | FEB. . | 3 19 42 | 3 23 24 |
| | FEB. . | 7 4 32 | 7 16 4 | | MAR. . | 5 8 26 | 5 17 11 |
| | MAR. . | 8 17 16 | 9 1 57 | | APRIL . | 3 21 10 | 4 8 50 |
| | APRIL . | 7 6 0 | 7 10 5 | | MAY . | { 3 9 54 | 3 21 49 |
| | MAY . | 6 18 44 | 6 17 17 | | ○ | { 18 4 16 | 17 19 40 |
| | JUNE . | 5 7 28 | 5 0 32 | | JUNE . | 1 22 38 | 2 8 12 |
| | JULY . | { 4 20 12 | 4 8 57 | | JULY . | { 1 11 22 | 1 16 43 |
| | ○ | { 19 14 31 | 19 21 33 | | AUG. . | 29 12 50 | 29 8 34 |
| | AUG. . | 3 8 56 | 2 19 35 | | SEPT. . | 28 1 34 | 27 17 38 |
| | SEPT. . | 1 21 40 | 1 9 7 | | OCT. . | 27 14 18 | 27 4 20 |
| | OCT. . | { 1 10 24 | 1 1 34 | | ○ | { 11 8 40 | 11 16 13 |
| 168. D.C. 21 14 23 | NOV. . | 29 11 52 | 29 15 35 | 171. G. 22 7 49 | NOV. . | { 26 3 2 | 25 16 59 |
| | DEC. . | 29 0 36 | 29 10 7 | | DEC. . | 25 15 46 | 25 7 36 |
| | JAN. . | 27 13 21 | 28 2 25 | | JAN. . | 24 4 31 | 23 23 52 |
| | FEB. . | 26 2 5 | 26 15 46 | | FEB. . | 22 17 15 | 22 17 2 |
| | MAR. . | 26 14 49 | 27 2 15 | | MAR. . | 24 5 59 | 24 10 10 |
| | APRIL . | 25 3 33 | 25 10 28 | | APRIL . | 22 18 43 | 23 2 17 |
| | MAY . | 24 16 17 | 24 17 23 | | ○ | { 7 13 5 | 7 9 4 |
| | JUNE . | 23 5 1 | 23 0 4 | | MAY . | { 22 7 27 | 22 16 36 |
| | JULY . | 22 17 45 | 22 7 37 | | JUNE . | 20 20 11 | 21 4 50 |
| | AUG. . | 21 6 29 | 20 17 7 | | JULY . | 20 8 55 | 20 15 20 |
| | SEPT. . | 19 19 13 | 19 5 23 | | AUG. . | 18 21 39 | 19 0 44 |
| | OCT. . | 19 7 57 | 18 20 43 | | SEPT. . | 17 10 23 | 17 9 57 |
| | NOV. . | 17 20 41 | 17 14 42 | | OCT. . | 16 23 7 | 16 19 38 |
| 169. B. 21 20 12 | ○ | { 2 15 3 | 2 17 14 | 172. F.E. 21 13 33 | NOV. . | 15 11 51 | 15 6 12 |
| | DEC. . | { 17 9 25 | 17 10 7 | | DEC. . | 15 0 35 | 14 17 50 |
| | JAN. . | 15 22 10 | 16 5 23 | | JAN. . | 13 13 20 | 13 6 32 |
| | FEB. . | 14 10 54 | 14 22 49 | | FEB. . | 12 2 4 | 11 20 21 |
| | MAR. . | 15 23 33 | 16 13 26 | | MAR. . | { 12 14 48 | 12 11 10 |
| | APRIL . | 14 12 22 | 15 1 0 | | ○ | { 27 9 10 | 27 18 25 |
| | MAY . | { 14 1 6 | 14 9 59 | | APRIL . | 11 3 32 | 11 2 43 |
| | ○ | { 23 19 23 | 23 18 17 | | MAY . | 10 16 16 | 10 18 27 |
| | JUNE . | 12 13 50 | 12 17 21 | | JUNE . | 9 5 0 | 9 9 33 |
| | JULY . | 12 2 34 | 12 0 14 | | JULY . | 8 17 44 | 8 23 46 |
| | AUG. . | 10 15 18 | 10 7 39 | | AUG. . | 7 6 23 | 7 12 34 |
| | SEPT. . | 9 4 2 | 8 16 37 | | SEPT. . | 5 19 12 | 6 0 14 |
| | OCT. . | 8 16 46 | 8 3 52 | | OCT. . | 5 7 56 | 5 11 14 |
| | NOV. . | { 7 5 30 | 6 17 50 | | NOV. . | 3 20 40 | 3 22 1 |
| | ○ | { 21 23 52 | 22 7 34 | | DEC. . | 3 9 24 | 3 8 50 |
| | DEC. . | 6 18 14 | 6 10 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 173. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 176. A.G. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. d. h. m. | | | | March. d. h. m. | | | |
| 21 19 27 | JAN. . | { 1 22 8 | 1 19 44 | 21 12 53 | ○ | { 14 7 40 | 14 0 36 |
| | FEB. . | { 31 10 52 | 31 6 47 | | JAN. . | { 29 2 2 | 29 14 28 |
| | | ... | ... | | FEB. . | 27 14 46 | 28 1 22 |
| | MAR. ○ | { 1 23 36 | 1 18 14 | | MAR. . | 23 3 30 | 23 10 9 |
| | | { 16 17 58 | 17 7 47 | | APRIL | 26 16 14 | 26 17 33 |
| | APRIL | { 31 12 20 | 31 6 27 | | MAY . | 26 4 58 | 26 0 32 |
| | MAY . | 30 1 4 | 29 19 48 | | JUNE . | 24 17 42 | 24 8 11 |
| | JUNE . | 29 13 48 | 29 10 19 | | ○ | { 9 12 4 | 9 19 13 |
| | JULY . | 28 2 32 | 28 1 39 | | JULY . | { 24 6 26 | 23 17 35 |
| | AUG. . | 27 15 16 | 27 17 13 | | AUG. . | 22 19 10 | 22 5 39 |
| | | 26 4 0 | 26 8 21 | | SEPT. . | 21 7 54 | 20 20 46 |
| | ○ | { 9 22 22 | 9 9 18 | | OCT. . | 20 20 38 | 20 14 33 |
| | SEPT. . | { 24 16 44 | 24 22 35 | | NOV. . | 19 9 22 | 19 9 52 |
| | OCT. . | 24 5 28 | 24 11 51 | | DEC. . | 18 22 6 | 19 5 4 |
| | NOV. . | 22 18 12 | 23 0 8 | | ○ | { 2 16 29 | 2 11 47 |
| | DEC. . | 22 6 56 | 22 11 32 | 177. F. | JAN. . | { 17 10 51 | 17 22 39 |
| 174. C. | JAN. . | 20 19 41 | 20 22 3 | 21 18 42 | FEB. . | 15 23 35 | 16 13 29 |
| 22 1 16 | FEB. . | 19 8 25 | 19 7 51 | | MAR. . | 17 12 19 | 18 1 15 |
| | ○ | { 6 2 47 | 6 14 8 | | APRIL | 16 1 3 | 16 10 24 |
| | MAR. . | { 20 21 9 | 20 17 20 | | MAY . | 15 13 47 | 15 17 47 |
| | APRIL | 19 9 53 | 19 3 12 | | JUNE . | { 14 2 31 | 14 0 24 |
| | MAY . | 18 22 37 | 18 14 14 | | ○ | { 28 20 53 | 28 23 9 |
| | JUNE . | 17 11 21 | 17 3 0 | | JULY . | 13 15 15 | 13 7 25 |
| | JULY . | 17 0 5 | 16 17 42 | | AUG. . | 12 3 59 | 11 15 54 |
| | AUG. . | { 15 12 49 | 15 9 55 | | SEPT. . | 10 16 43 | 10 2 47 |
| | ○ | { 30 7 11 | 30 0 7 | | OCT. . | 10 5 27 | 9 16 39 |
| | SEPT. . | 14 1 33 | 14 2 51 | | NOV. . | 8 18 11 | 8 9 27 |
| | OCT. . | 13 14 17 | 13 19 34 | | DEC. . | { 8 6 55 | 8 4 19 |
| | NOV. . | 12 3 1 | 12 11 15 | | ○ | { 23 1 17 | 23 3 8 |
| | DEC. . | 11 15 45 | 12 1 21 | 178. E. | JAN. . | 6 19 40 | 6 23 50 |
| 175. B. | JAN. . | 10 4 30 | 10 13 37 | 22 0 31 | FEB. . | 5 8 24 | 5 13 16 |
| 22 7 5 | FEB. . | 8 17 14 | 9 0 8 | | MAR. . | 6 21 8 | 7 10 17 |
| | MAR. . | 10 5 58 | 10 9 9 | | APRIL | 5 9 52 | 5 23 16 |
| | APRIL | 8 18 42 | 8 17 17 | | MAY . | 4 22 36 | 5 9 26 |
| | MAY . | 8 7 26 | 8 1 21 | | JUNE . | { 3 11 20 | 3 17 29 |
| | JUNE . | 6 20 10 | 6 10 22 | | ○ | { 18 5 42 | 17 23 47 |
| | JULY . | 6 8 54 | 5 21 17 | | JULY . | 3 0 4 | 3 0 33 |
| | AUG. . | 4 21 38 | 4 10 45 | | AUG. . | { 1 12 48 | 1 7 39 |
| | SEPT. . | 3 10 22 | 3 2 46 | | | { 31 1 32 | 30 15 54 |
| | OCT. . | 2 23 6 | 2 20 39 | | SEPT. . | 29 14 16 | 29 2 4 |
| | NOV. . | 1 11 50 | 1 15 11 | | OCT. . | 29 3 0 | 28 14 43 |
| | DEC. . | { 1 0 34 | 1 9 1 | | NOV. . | 27 15 44 | 27 5 53 |
| | | { 30 13 18 | 31 1 0 | | DEC . | 27 4 28 | 26 23 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 179. D. March. d. h. m. 22 6 20 | | d. h. m. | d. h. m. | A.D. 182. G. March. d. h. m. 21 23 46 | | d. h. m. | d. h. m. |
| | JAN. . | 25 17 12 | 25 17 54 | | JAN. . | 22 8 22 | 22 5 38 |
| | FEB. . | 24 5 56 | 24 12 10 | | FEB. . | 20 21 6 | 20 16 30 |
| | MAR. . | 25 18 40 | 26 4 52 | | MAR. . | 22 9 50 | 22 3 59 |
| | APRIL | 24 7 24 | 24 19 9 | | APRIL | 20 22 34 | 20 16 27 |
| | MAY . | 23 20 8 | 24 6 49 | | MAY . | 20 11 18 | 20 6 14 |
| | JUNE . | 22 8 52 | 22 16 18 | | JUNE . | 19 0 2 | 18 21 9 |
| | JULY . | 21 21 36 | 22 0 30 | | JULY . | 18 12 46 | 18 12 47 |
| | AUG. . | 20 10 20 | 20 8 28 | | AUG. . | 17 1 30 | 17 4 24 |
| | SEPT. . | 18 23 4 | 18 17 6 | | SEPT. . | 15 14 14 | 15 19 25 |
| | OCT. . | 18 11 48 | 18 3 4 | | OCT. . | 15 2 58 | 15 9 29 |
| | ○ | 2 6 10 | 2 11 52 | | NOV. . | 13 15 42 | 13 22 29 |
| | NOV. . | 17 0 32 | 16 14 46 | | DEC. . | 13 4 26 | 13 10 24 |
| | DEC. . | 16 13 16 | 16 4 21 | | | | |
| 180. C.B. 21 12 9 | JAN. . | 15 2 1 | 14 19 30 | 183. F 22 5 35 | JAN. . | 11 17 10 | 11 21 17 |
| | FEB. . | 13 14 45 | 13 12 12 | | FEB. . | 10 5 54 | 10 7 15 |
| | MAR. . | 14 3 29 | 14 5 13 | | ○ | 25 0 16 | 25 9 33 |
| | APRIL | 12 16 13 | 12 21 47 | | MAR. . | 11 18 39 | 11 16 37 |
| | ○ | 27 10 35 | 27 9 8 | | APRIL | 10 7 23 | 10 1 57 |
| | MAY . | 12 4 57 | 12 13 1 | | MAY . | 9 20 7 | 9 12 3 |
| | JUNE . | 10 17 41 | 11 2 23 | | JUNE . | 8 8 51 | 7 23 45 |
| | JULY . | 10 6 25 | 10 13 51 | | JULY . | 7 21 35 | 7 13 27 |
| | AUG. . | 8 19 9 | 8 23 55 | | AUG. . | 6 10 19 | 6 5 3 |
| | SEPT. . | 7 7 53 | 7 9 23 | | ○ | 21 4 41 | 20 23 59 |
| | OCT. . | 6 20 37 | 6 19 0 | | SEPT. . | 4 23 8 | 4 21 56 |
| | ○ | 21 14 59 | 21 12 11 | | OCT. . | 4 11 47 | 4 15 9 |
| | NOV. . | 5 9 21 | 5 5 14 | | NOV. . | 3 0 31 | 3 7 42 |
| | DEC. . | 4 22 5 | 4 16 20 | | DEC. . | 2 13 15 | 2 22 50 |
| 181. A. 21 17 58 | JAN. . | 3 10 49 | 3 4 21 | 184. E.D. 21 11 24 | JAN. . | 1 1 59 | 1 12 4 |
| | FEB. . | 1 23 33 | 1 17 22 | | ○ | 30 14 43 | 30 23 22 |
| | MAR. . | 3 12 17 | 3 7 25 | | FEB. . | 14 9 5 | 14 9 18 |
| | APRIL | 2 1 1 | 1 22 21 | | ○ | 29 8 27 | 29 8 55 |
| | ○ | 16 19 23 | 17 2 6 | | MAR. . | 29 16 11 | 29 17 12 |
| | MAY . | 1 13 45 | 1 13 52 | | APRIL | 23 4 55 | 23 1 0 |
| | JUNE . | 29 15 13 | 29 20 11 | | MAY . | 27 17 39 | 27 9 15 |
| | JULY . | 29 3 57 | 29 9 50 | | JUNE . | 26 6 23 | 25 19 1 |
| | AUG. . | 27 16 41 | 27 22 19 | | JULY . | 25 19 7 | 25 7 10 |
| | SEPT. . | 26 5 25 | 26 9 53 | | ○ | 9 13 29 | 9 16 23 |
| | ○ | 10 23 47 | 10 12 30 | | AUG. . | 24 7 51 | 23 22 0 |
| | OCT. . | 25 18 9 | 25 20 59 | | SEPT. . | 22 20 35 | 22 15 14 |
| | NOV. . | 24 6 53 | 24 7 53 | | OCT. . | 22 9 19 | 22 9 43 |
| | DEC. . | 23 19 37 | 23 18 43 | | NOV. . | 20 22 3 | 21 4 20 |
| | | | | | DEC. . | 20 10 47 | 20 21 23 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 185. C. March. <i>d h. m.</i> 21 17 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 188. G.F. March. <i>d. h. m.</i> 21 10 39 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 18 23 32 | 19 12 16 | | JAN. . | 16 14 42 | 16 12 31 |
| | ○ | { 2 17 54 | 2 12 3 | | FEB. . | 15 3 26 | 15 6 53 |
| | FEB. . | { 17 12 16 | 18 0 20 | | MAR. . | 15 16 10 | 16 0 21 |
| | MAR. . | 19 1 0 | 19 9 59 | | APRIL | 14 4 54 | 14 15 49 |
| | APRIL | 17 13 44 | 17 17 49 | | MAY . | { 13 17 38 | 14 4 46 |
| | MAY . | 17 2 23 | 17 0 47 | | ○ | { 23 12 0 | 28 2 43 |
| | JUNE . | 15 15 12 | 15 7 52 | | JUNE . | 12 6 22 | 12 15 20 |
| | JULY . | { 15 3 56 | 14 16 15 | | JULY . | 11 19 6 | 12 0 12 |
| | ○ | { 29 22 18 | 30 4 46 | | AUG. . | 10 7 50 | 10 8 21 |
| | AUG. . | 13 16 40 | 13 2 57 | | SEPT. . | 8 20 31 | 8 16 46 |
| | SEPT. . | 12 5 24 | 11 16 36 | | OCT. . | 8 9 18 | 8 2 10 |
| | OCT. . | 11 18 8 | 11 9 14 | | NOV. . | { 6 22 2 | 6 13 4 |
| | NOV. . | 10 6 52 | 10 4 3 | | ○ | { 21 16 24 | 22 0 30 |
| | DEC. . | 9 19 36 | 9 23 36 | | DEC. . | 6 10 46 | 6 1 39 |
| 186. B. 21 23 2 | JAN. . | 8 8 21 | 8 18 12 | 189. E. 21 16 23 | JAN. . | 4 23 30 | 4 15 58 |
| | FEB. . | 6 21 5 | 7 10 25 | | FEB. . | 3 12 14 | 3 7 42 |
| | MAR. . | 8 9 49 | 8 23 38 | | MAR. . | 5 0 59 | 5 0 20 |
| | APRIL | 6 22 33 | 7 9 56 | | APRIL | 3 13 43 | 3 17 2 |
| | MAY . | 6 11 17 | 6 18 0 | | MAY . | { 3 2 27 | 3 8 56 |
| | JUNE . | 5 0 1 | 5 0 50 | | ○ | { 17 20 49 | 17 16 30 |
| | JULY . | 4 12 45 | 4 7 32 | | JUNE . | 1 15 11 | 1 23 17 |
| | AUG. . | 3 1 29 | 2 15 13 | | JULY . | { 1 3 55 | 1 11 48 |
| | SEPT. . | 1 14 13 | { 1 0 55 | | ○ | { 30 16 39 | 30 22 43 |
| | ○ | { 1 2 57 | { 30 13 20 | | AUG. . | 29 5 23 | 29 8 39 |
| | OCT. . | { 30 15 41 | 30 4 45 | | SEPT. . | 27 18 7 | 27 18 21 |
| | NOV. . | 29 4 25 | 28 22 44 | | OCT. . | 27 6 51 | 27 4 25 |
| | ○ | { 13 22 47 | 14 2 12 | | NOV. . | 25 19 35 | 25 15 8 |
| | DEC. . | { 23 17 9 | 23 18 4 | | DEC. . | 25 8 19 | 25 2 38 |
| 187. A. 22 4 51 | JAN. . | 27 5 53 | 27 13 6 | 190. D. 21 22 17 | JAN. . | 23 21 3 | 23 14 57 |
| | FEB. . | 25 18 37 | 26 6 21 | | FEB. . | 22 9 47 | 22 4 10 |
| | MAR. . | 27 7 21 | 27 20 50 | | MAR. . | 23 22 31 | 23 18 22 |
| | APRIL | 25 20 5 | 26 8 18 | | ○ | { 7 16 53 | 8 2 10 |
| | MAY . | 25 8 49 | 25 17 18 | | APRIL | { 22 11 15 | 22 9 26 |
| | ○ | { 9 3 11 | 8 19 53 | | MAY . | 21 23 59 | 22 0 54 |
| | JUNE . | { 23 21 33 | 24 0 45 | | JUNE . | 20 12 43 | 20 16 9 |
| | JULY . | 23 10 17 | 23 7 50 | | JULY . | 20 1 27 | 20 6 36 |
| | AUG. . | 21 23 1 | 21 15 32 | | AUG. . | 18 14 11 | 18 19 55 |
| | SEPT. . | 20 11 45 | 20 0 48 | | SEPT. . | 17 2 55 | 17 8 12 |
| | OCT. . | 20 0 29 | 19 12 16 | | OCT. . | 16 15 39 | 16 19 44 |
| | NOV. . | 18 13 13 | 18 2 13 | | NOV. . | 15 4 23 | 15 6 54 |
| | ○ | { 3 7 35 | 3 16 17 | | DEC. . | 14 17 7 | 14 17 47 |
| | DEC. . | { 13 1 57 | 17 18 34 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 191. c. March. d. h. m. 22 4 6 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 194. f. March. d. h. m. 21 21 32 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 13 5 52 | 13 4 31 | | JAN. . | { 9 21 2 | 10 9 22 |
| | FEB. . | 11 18 36 | 11 15 10 | | ○ | { 24 15 24 | 24 8 51 |
| | MAR. . | { 13 7 20 | 13 2 3 | | FEB. . | 8 9 46 | 8 22 46 |
| | ○ | { 28 1 42 | 28 15 21 | | MAR. . | 9 22 30 | 10 9 28 |
| | APRIL | 11 20 4 | 11 13 40 | | APRIL | 8 11 14 | 8 17 58 |
| | MAY . | 11 8 43 | 11 2 32 | | MAY . | 7 23 58 | 8 1 7 |
| | JUNE . | 9 21 32 | 9 16 48 | | JUNE . | 6 12 42 | 6 7 55 |
| | JULY . | 9 10 16 | 9 8 11 | | JULY . | { 6 1 26 | 5 15 31 |
| | AUG. . | 7 23 0 | 8 0 4 | | ○ | { 20 19 48 | 21 2 18 |
| | SEPT. . | { 6 11 44 | 6 15 43 | | AUG. . | 4 14 10 | 4 0 58 |
| | ○ | { 21 6 6 | 20 17 24 | | SEPT. . | 3 2 54 | 2 13 8 |
| | OCT. . | 6 0 28 | 6 6 33 | | OCT. . | 2 15 38 | { 2 4 23 |
| | NOV. . | 4 13 12 | 4 20 23 | | NOV. . | { 1 4 22 | { 31 22 23 |
| | DEC. . | 4 1 56 | 4 8 59 | | DEC. . | { 30 17 6 | 30 17 50 |
| | | | | | | 30 5 50 | 30 13 7 |
| 192. B.A. 21 9 55 | JAN. . | 2 14 41 | 2 20 26 | 195. E. 22 3 21 | ○ | { 14 0 13 | 13 20 31 |
| | FEB. . | 1 3 25 | 1 6 42 | | JAN. . | { 28 18 35 | 29 6 39 |
| | MAR. ○ | { 1 16 9 | 1 16 6 | | FEB. . | 27 7 19 | 27 21 20 |
| | APRIL | { 16 10 31 | 16 21 23 | | MAR. . | 28 20 3 | 29 8 57 |
| | MAY . | { 31 4 53 | 31 1 6 | | APRIL | 27 8 47 | 27 17 57 |
| | JUNE . | 29 17 37 | 29 10 29 | | MAY . | 26 21 31 | 27 1 13 |
| | JULY . | 29 6 21 | 28 21 7 | | JUNE . | 25 10 15 | 25 7 52 |
| | AUG. . | 27 19 5 | 27 9 41 | | ○ | { 10 4 37 | 10 5 44 |
| | SEPT. . | 27 7 49 | 27 0 24 | | JULY . | { 24 22 59 | 24 15 1 |
| | ○ | 25 20 33 | 25 16 54 | | AUG. . | 23 11 43 | 22 23 40 |
| | SEPT. . | { 9 14 55 | 9 8 18 | | SEPT. . | 22 0 27 | 21 10 45 |
| | OCT. . | { 24 9 17 | 24 10 18 | | OCT. . | 21 13 11 | 21 0 44 |
| | NOV. . | 23 22 1 | 24 3 35 | | NOV. . | 20 1 55 | 19 17 34 |
| | DEC. . | 22 10 45 | 22 19 42 | | DEC. . | 19 14 39 | 19 12 20 |
| | | 21 23 29 | 22 10 2 | | ○ | { 3 9 1 | 3 12 3 |
| 193. G. 21 15 44 | JAN. . | 20 12 13 | 20 22 17 | 196. D.C. 21 9 10 | JAN. . | { 18 3 23 | 18 7 37 |
| | FEB. . | 19 0 57 | 19 8 32 | | FEB. . | 16 16 7 | 17 1 48 |
| | MAR. . | 20 13 41 | 20 17 12 | | MAR. . | 17 4 51 | 17 17 39 |
| | APRIL | 19 2 25 | 19 0 56 | | APRIL | 15 17 35 | 16 6 33 |
| | MAY . | 18 15 9 | 18 8 39 | | MAY . | 15 6 19 | 15 16 40 |
| | JUNE . | 17 3 53 | 16 17 27 | | JUNE . | { 13 19 3 | 14 0 49 |
| | JULY . | 16 16 37 | 16 4 16 | | ○ | { 23 13 25 | 23 6 21 |
| | AUG. . | 15 5 21 | 14 17 47 | | JULY . | 13 7 47 | 13 8 3 |
| | SEPT. . | 13 18 5 | 13 10 2 | | AUG. . | 11 20 31 | 11 15 28 |
| | OCT. . | 13 6 49 | 13 4 14 | | SEPT. . | 10 9 15 | 10 0 1 |
| | NOV. . | 11 19 33 | 11 23 10 | | OCT. . | 9 21 59 | 9 10 25 |
| | DEC. . | 11 8 17 | 11 17 17 | | NOV. . | 8 10 43 | 7 23 10 |
| | | | | | DEC. . | 7 23 27 | 7 14 19 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 197. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 200. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. | JAN. . | 6 12 12 | 6 7 23 | F.E. March. | JAN. . | 4 3 22 | 4 3 38 |
| <i>d. h. m.</i> | FEB. . | 5 0 56 | 5 1 31 | <i>d. h. m.</i> | FEB. . | 2 16 6 | 2 14 7 |
| 21 14 59 | MAR. . | 6 13 40 | 6 19 24 | 21 8 25 | MAR. . | 3 4 50 | 3 0 33 |
| | APRIL . | 5 2 24 | 5 11 51 | | APRIL . | 1 17 34 | { 1 11 27 |
| | MAY . | 4 15 8 | 5 2 3 | | MAY . | { 1 6 18 | { 30 23 24 |
| | JUNE . | 3 3 52 | 3 13 49 | | JUNE . | { 30 19 2 | 30 12 48 |
| | JULY . | 2 16 36 | 2 23 33 | | JULY . | 20 7 46 | 29 3 33 |
| | AUG. . | { 1 5 20 | 1 8 8 | | AUG. . | 28 20 30 | 28 19 28 |
| | SEPT. . | { 30 18 4 | 30 16 3 | | SEPT. . | 27 9 14 | 27 11 33 |
| | OCT. . | 29 6 43 | 29 1 32 | | OCT. . | 25 21 58 | 26 3 10 |
| | NOV. . | 28 19 32 | 28 11 47 | | NOV. . | 25 10 42 | 25 17 49 |
| | DEC. . | 12 13 54 | 12 19 59 | | DEC. . | 23 23 26 | 24 7 14 |
| | | 27 8 16 | 26 23 31 | | | 23 12 10 | 23 19 18 |
| | | 26 21 0 | 26 12 53 | | | | |
| 198. | JAN. . | 25 9 44 | 25 3 43 | 201. | JAN. . | 22 0 54 | 22 6 3 |
| A. | FEB. . | 23 22 28 | 23 19 41 | D. | FEB. . | 20 18 38 | 20 15 40 |
| 21 20 48 | MAR. . | 25 11 12 | 25 12 11 | | ○ | { 7 8 0 | 7 16 50 |
| | APRIL . | 23 23 56 | 24 4 26 | 21 14 14 | MAR. . | { 22 2 22 | 22 0 33 |
| | ○ | { 8 18 18 | 8 16 33 | | APRIL . | 20 15 6 | 20 9 23 |
| | MAY . | { 23 12 40 | 23 19 37 | | MAY . | 20 3 50 | 19 19 5 |
| | JUNE . | 22 1 24 | 22 9 9 | | JUNE . | 18 16 34 | 18 6 30 |
| | JULY . | 21 14 8 | 21 21 1 | | JULY . | 18 5 18 | 17 20 8 |
| | AUG. . | 20 2 52 | 20 7 36 | | AUG. . | { 16 18 2 | 16 11 54 |
| | SEPT. . | 18 15 36 | 18 17 35 | | ○ | { 31 12 24 | 31 8 13 |
| | OCT. . | 18 4 20 | 18 3 33 | | SEPT. . | 15 6 46 | 15 5 11 |
| | ○ | { 1 22 42 | 1 19 58 | | OCT. . | 14 19 30 | 14 22 55 |
| | NOV. . | { 16 17 4 | 16 14 7 | | NOV. . | 13 8 14 | 13 15 57 |
| | DEC. . | 16 5 48 | 16 1 13 | | DEC. . | 12 20 58 | 13 7 24 |
| 199. | JAN. . | 14 18 33 | 14 12 59 | 202. | JAN. . | 11 9 43 | 11 20 45 |
| G. | FEB. . | 13 7 17 | 13 1 28 | C. | FEB. . | { 9 22 27 | 10 7 52 |
| 22 2 37 | MAR. . | 14 20 1 | 14 14 53 | | ○ | { 21 16 49 | 24 16 42 |
| | APRIL . | { 13 8 45 | 13 5 16 | 21 20 3 | MAR. . | 11 11 11 | 11 17 6 |
| | ○ | { 23 3 7 | 23 9 50 | | APRIL . | 9 23 55 | 10 1 1 |
| | MAY . | 12 21 29 | 12 20 25 | | MAY . | 9 12 39 | 9 8 27 |
| | JUNE . | 11 10 13 | 11 11 49 | | JUNE . | 8 1 23 | 7 16 27 |
| | JULY . | 10 22 57 | 11 2 51 | | JULY . | 7 14 7 | 7 2 5 |
| | AUG. . | 9 11 41 | 9 16 59 | | AUG. . | { 6 2 51 | 5 14 14 |
| | SEPT. . | 8 0 25 | 8 6 3 | | ○ | { 20 21 13 | 21 0 12 |
| | OCT. . | { 7 13 9 | 7 18 13 | | SEPT. . | 4 15 35 | 4 5 18 |
| | ○ | { 22 7 31 | 21 20 26 | | OCT. . | 4 4 19 | 3 22 42 |
| | NOV. . | 6 1 53 | 6 5 44 | | NOV. . | 2 17 3 | 2 17 38 |
| | DEC. . | 5 14 37 | 5 16 52 | | DEC. . | { 2 5 47 | 2 12 29 |
| | | | | | | { 31 18 31 | ... |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 203. B. March. <i>d. h. m.</i> 22 1 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 206. E. March. <i>d. h. m.</i> 21 19 18 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { ... | 1 5 46 | | JAN. . | 26 22 26 | 26 20 18 |
| | ○ | { 30 7 16 | 30 20 34 | | FEB. . | 25 11 10 | 25 14 13 |
| | FEB. . | { 14 1 33 | 13 19 8 | | MAR. . | 26 23 54 | 27 7 20 |
| | ○ | { 28 20 0 | { 1 8 28 | | APRIL | 25 12 33 | 25 22 40 |
| | MAR. . | { 30 8 44 | { 30 17 51 | | MAY . | 25 1 22 | 25 11 40 |
| | APRIL | 28 21 28 | 29 1 28 | | ○ | { 8 19 44 | 8 9 46 |
| | MAY . | 28 10 12 | 28 8 13 | | JUNE . | { 23 14 6 | 23 22 27 |
| | JUNE . | 26 22 56 | 26 15 15 | | JULY . | 23 2 50 | 23 7 40 |
| | JULY . | 26 11 40 | 25 23 39 | | AUG. . | 21 15 34 | 21 16 15 |
| | ○ | { 10 6 2 | 10 12 5 | | SEPT. . | 20 4 18 | 20 1 5 |
| | AUG. . | { 25 0 24 | 24 10 26 | | OCT. . | 19 17 2 | 19 10 49 |
| | SEPT. . | 23 13 8 | 23 0 15 | | NOV. . | 18 5 46 | 17 21 51 |
| | OCT. . | 23 1 52 | 22 17 2 | | ○ | { 3 0 8 | 3 8 47 |
| | NOV. . | 21 14 36 | 21 12 0 | | DEC. . | { 17 18 30 | 17 10 21 |
| | DEC. . | 21 3 20 | 21 7 36 | | | | |
| 204. A.G. 21 7 41 | JAN. . | 19 16 5 | 20 2 9 | 207. D. 22 1 7 | JAN. . | 16 7 14 | 16 0 16 |
| | FEB. . | 18 4 49 | 18 18 17 | | FEB. . | 14 19 58 | 14 15 27 |
| | MAR. . | 18 17 32 | 19 7 20 | | MAR. . | 16 8 42 | 16 7 30 |
| | APRIL | 17 6 16 | 17 17 29 | | APRIL | 14 21 26 | 14 23 46 |
| | MAY . | 16 19 0 | 17 1 26 | | MAY . | { 14 10 10 | 14 15 28 |
| | JUNE . | 15 7 44 | 15 8 15 | | ○ | { 29 4 32 | 8 23 53 |
| | JULY . | 14 20 28 | 14 15 5 | | JUNE . | 12 22 54 | 13 5 55 |
| | AUG. . | 13 9 12 | 12 22 57 | | JULY . | 12 11 38 | 12 18 46 |
| | SEPT. . | 11 21 56 | 11 8 51 | | AUG. . | 11 0 22 | 11 6 10 |
| | OCT. . | 11 10 40 | 10 21 25 | | SEPT. . | 9 13 6 | 9 16 39 |
| | NOV. . | 9 23 24 | 9 12 54 | | OCT. . | 9 1 50 | 9 2 52 |
| | DEC. . | { 9 12 8 | 9 6 47 | | NOV. . | 7 14 34 | 7 13 15 |
| | ○ | { 24 6 30 | 24 11 8 | | DEC. . | 7 3 18 | 7 0 4 |
| 205. F. 21 13 30 | JAN. . | 8 0 53 | 8 1 56 | 208. C.B. 21 6 56 | JAN. . | 5 16 3 | 5 11 24 |
| | FEB. . | 6 13 37 | 6 20 44 | | FEB. . | 4 4 47 | 3 23 17 |
| | MAR. . | 8 2 21 | 8 13 46 | | MAR. . | 4 17 31 | 4 11 54 |
| | APRIL | 6 15 5 | 7 4 4 | | APRIL | { 3 6 15 | 3 1 29 |
| | MAY . | 6 3 49 | 6 15 30 | | ○ | { 18 0 37 | 18 9 49 |
| | JUNE . | { 4 16 33 | 5 0 34 | | MAY . | 2 18 59 | 2 16 6 |
| | ○ | { 19 10 55 | 19 2 30 | | JUNE . | { 1 7 43 | 1 7 21 |
| | JULY . | 4 5 17 | 4 8 13 | | | { 30 20 27 | 30 22 42 |
| | AUG. . | 2 18 1 | { 2 15 44 | | JULY . | 30 9 11 | 30 13 30 |
| | SEPT. . | { 1 6 45 | { 31 23 36 | | AUG. . | 28 21 55 | 29 3 24 |
| | | { 30 19 29 | 30 9 9 | | SEPT. . | 27 10 39 | 27 16 17 |
| | OCT. . | 30 8 13 | 29 20 45 | | OCT. . | 26 23 23 | 27 4 21 |
| | NOV. . | 28 20 57 | 28 10 43 | | NOV. . | 25 12 7 | 25 15 49 |
| | ○ | { 13 15 19 | 14 1 1 | | DEC. . | 25 0 51 | 25 2 46 |
| | DEC. . | { 28 9 41 | 28 2 46 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 209. A. March. d. h. m. 21 12 45 | | d. h. m. | d. h. m. | A.D. 212. E.D. March. d. h. m. 21 6 11 | | d. h. m. | d. h. m. |
| | JAN. . | 23 18 35 | 23 13 14 | | JAN. . | 21 4 46 | 21 17 38 |
| | FEB. . | 22 2 19 | 21 23 25 | | ○ | { 4 23 8 | 4 17 1 |
| | MAR. . | 23 15 3 | 23 9 44 | | FEB. . | { 19 17 30 | 20 6 56 |
| | ○ | { 7 9 25 | 7 22 45 | | MAR. . | 20 6 13 | 20 17 23 |
| | APRIL | { 22 3 47 | 21 20 48 | | APRIL | 18 18 57 | 19 1 38 |
| | MAY . | 21 16 31 | 21 9 15 | | MAY . | 18 7 41 | 18 8 36 |
| | JUNE . | 20 5 15 | 19 23 18 | | JUNE . | 16 20 25 | 16 15 19 |
| | JULY . | 19 17 59 | 19 14 46 | | JULY . | { 16 9 9 | 15 22 55 |
| | AUG. . | 18 6 43 | 18 7 0 | | ○ | { 31 3 31 | 31 9 21 |
| | SEPT. . | 16 19 27 | 16 23 13 | | AUG. . | 14 21 53 | 14 8 28 |
| | ○ | { 1 13 49 | 1 1 37 | | SEPT. . | 13 10 37 | 12 20 48 |
| | OCT. . | { 16 8 11 | 16 14 42 | | OCT. . | 12 23 21 | 12 12 18 |
| | NOV. . | 14 20 55 | 15 4 58 | | NOV. . | 11 12 5 | 11 6 17 |
| | DEC. . | 14 9 39 | 14 17 49 | | DEC. . | 11 0 49 | 11 1 48 |
| 210. G. 21 18 34 | JAN. . | 12 22 24 | 13 5 14 | 213. C. 21 12 0 | JAN. . | { 9 13 34 | 9 21 4 |
| | FEB. . | 11 11 8 | 11 15 14 | | ○ | { 24 7 56 | 24 5 8 |
| | MAR. . | { 12 23 52 | 13 0 12 | | FEB. . | 8 2 18 | 8 14 28 |
| | ○ | { 27 18 14 | 28 4 28 | | MAR. . | 9 15 2 | 10 5 1 |
| | APRIL | 11 12 36 | 11 8 44 | | APRIL | 8 3 46 | 8 16 29 |
| | MAY . | 11 1 20 | 10 17 41 | | MAY . | 7 16 30 | 8 1 22 |
| | JUNE . | 9 14 4 | 9 4 0 | | JUNE . | 6 5 14 | 6 8 38 |
| | JULY . | 9 2 48 | 8 16 24 | | JULY . | { 5 17 58 | 5 15 23 |
| | AUG. . | 7 15 32 | 7 7 13 | | ○ | { 20 12 20 | 20 12 21 |
| | SEPT. . | { 6 4 16 | 6 0 0 | | AUG. . | 4 6 42 | 8 22 41 |
| | ○ | { 20 22 38 | 20 16 37 | | SEPT. . | 2 19 26 | 2 7 35 |
| | OCT. . | 5 17 0 | 5 17 51 | | OCT. . | { 2 8 10 | 1 18 51 |
| | NOV. . | 4 5 44 | 4 11 38 | | FEB. . | { 31 20 54 | 31 8 57 |
| | DEC. . | 3 18 28 | 4 4 8 | | NOV. . | 30 9 38 | 30 1 41 |
| | | | | | DEC. . | 29 22 22 | 29 20 17 |
| 211. F. 22 0 23 | JAN. . | { 2 7 13 | 2 18 39 | 214. B. 21 17 49 | ○ | { 13 16 44 | 13 20 58 |
| | | { 31 19 57 | ... | | JAN. . | { 28 11 6 | 28 15 17 |
| | FEB. . | ... | 1 6 49 | | FEB. . | 26 23 50 | 27 9 18 |
| | MAR. . | { 2 8 41 | 2 16 49 | | MAR. . | 28 12 35 | 29 0 58 |
| | | { 31 21 25 | { 1 1 7 | | APRIL | 27 1 19 | 27 18 42 |
| | APRIL | 30 10 9 | { 30 8 30 | | MAY . | 26 14 3 | 26 23 53 |
| | MAY . | 29 22 53 | 29 15 58 | | JUNE . | 25 2 47 | 25 8 12 |
| | JUNE . | 28 11 37 | 28 0 35 | | ○ | { 9 21 9 | 9 12 58 |
| | JULY . | 28 0 21 | 27 11 22 | | JULY . | { 24 15 31 | 24 15 41 |
| | AUG. . | 26 13 5 | 26 0 59 | | AUG. . | 23 4 15 | 22 28 26 |
| | SEPT. . | 25 1 49 | 24 17 26 | | SEPT. . | 21 16 59 | 21 8 19 |
| | OCT. . | 24 14 33 | 24 11 58 | | OCT. . | 21 5 48 | 20 18 56 |
| | NOV. . | 23 3 17 | 23 7 10 | | NOV. . | 19 18 27 | 19 7 44 |
| | DEC. . | 22 16 1 | 23 1 30 | | DEC. . | 19 7 11 | 18 22 41 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 215. A. March. d. h. m. 21 23 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 218. D. March. d. h. m. 21 17 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 19 55 | 17 15 23 | | JAN. . | 14 11 5 | 14 12 27 |
| | FEB. . | 16 8 39 | 16 9 0 | | FEB. . | 12 23 49 | 12 22 33 |
| | MAR. . | 17 21 23 | 18 2 27 | | MAR. . | 14 12 33 | 14 8 28 |
| | APRIL | 16 10 7 | 16 18 39 | | APRIL | 13 1 17 | 12 18 48 |
| | MAY . | 15 22 51 | 16 8 50 | | MAY . | 12 14 1 | 12 6 16 |
| | JUNE . | 14 11 35 | 14 20 46 | | JUNE . | 11 2 45 | 10 19 22 |
| | JULY . | 14 0 19 | 14 6 50 | | JULY . | 10 15 29 | 10 10 10 |
| | AUG. . | 12 13 3 | 12 15 51 | | AUG. . | 9 4 13 | 9 2 15 |
| | SEPT. . | 11 1 47 | 11 0 41 | | SEPT. . | 7 16 57 | 7 18 48 |
| | OCT. . | 10 14 31 | 10 10 5 | | OCT. . | 7 5 41 | 7 11 2 |
| | NOV. . | 9 3 15 | 8 20 34 | | NOV. . | 5 18 25 | 6 2 13 |
| | DEC. . | 8 15 59 | 8 8 19 | | DEC. . | 5 7 9 | 5 15 58 |
| 216. G.F. 21 5 27 | JAN. . | 7 4 44 | 6 21 23 | 219. C. 21 22 53 | JAN. . | 3 19 54 | 4 4 8 |
| | FEB. . | 5 17 28 | 5 11 43 | | FEB. . | 2 8 38 | 2 14 42 |
| | MAR. . | 6 6 12 | 6 3 5 | | MAR. . | 3 21 22 | 3 23 57 |
| | APRIL | 4 18 56 | 4 19 5 | | APRIL | 2 10 6 | 2 8 22 |
| | MAY . | { 4 7 40 | 4 11 1 | | MAY . | { 1 22 50 | 1 16 47 |
| | ○ | { 19 2 2 | 19 0 7 | | ○ | { 31 11 34 | 31 2 8 |
| | JUNE . | 2 20 24 | 3 2 9 | | JUNE . | 30 0 18 | 29 13 20 |
| | JULY . | { 2 9 8 | 2 15 57 | | JULY . | 29 13 2 | 29 2 57 |
| | ○ | { 81 21 52 | { 1 4 16 | | ○ | { 23 1 46 | 27 18 55 |
| | AUG. . | 30 10 36 | 30 15 24 | | ○ | { 11 20 8 | 11 16 14 |
| | SEPT. . | 28 23 20 | 29 1 56 | | SEPT. . | { 26 14 30 | 26 12 36 |
| | OCT. . | 28 12 4 | 28 12 24 | | OCT. . | 26 3 14 | 26 6 48 |
| | ○ | { 12 6 26 | 12 3 51 | | NOV. . | 24 15 58 | 25 0 15 |
| | NOV. . | { 27 0 48 | 26 23 5 | | DEC. . | 24 4 42 | 24 15 56 |
| | DEC. . | 26 13 32 | 26 10 7 | | | | |
| 217. E. 21 11 16 | JAN. . | 25 2 17 | 24 21 31 | 220. B.A. 21 4 42 | JAN. . | 22 17 27 | 23 5 17 |
| | FEB. . | 23 15 1 | 23 9 27 | | FEB. . | 21 6 11 | 21 16 13 |
| | MAR. . | 25 3 45 | 24 22 15 | | ○ | { 7 0 33 | 7 0 0 |
| | APRIL | 23 16 29 | 23 12 5 | | MAR. . | { 21 18 55 | 22 1 7 |
| | ○ | { 8 10 51 | 8 17 22 | | APRIL | 20 7 39 | 20 8 42 |
| | MAY . | { 23 5 13 | 23 2 54 | | MAY . | 19 20 23 | 19 15 52 |
| | JUNE . | 21 17 57 | 21 18 16 | | JUNE . | 18 9 7 | 17 23 41 |
| | JULY . | 21 6 41 | 21 9 34 | | JULY . | 17 21 51 | 17 9 15 |
| | AUG. . | 19 19 25 | 20 0 12 | | AUG. . | { 16 10 35 | 15 21 27 |
| | SEPT. . | 18 8 9 | 18 13 54 | | ○ | { 31 4 57 | 31 8 8 |
| | OCT. . | 17 20 53 | 18 2 38 | | SEPT. . | 14 23 19 | 14 12 37 |
| | ○ | { 1 15 15 | 1 4 31 | | OCT. . | 14 12 3 | 14 6 21 |
| | NOV. . | { 16 9 37 | 16 14 34 | | NOV. . | 13 0 47 | 13 1 32 |
| | DEC. . | 15 22 21 | 16 1 50 | | DEC. . | 12 13 31 | 12 20 35 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Rel.) | True New Moon. (O Full Rel.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Rel.) | True New Moon. (O Full Rel.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 221. G. March. d. h. m. 21 10 81 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 224. D. March. d. h. m. 21 8 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 11 2 15 | 11 18 59 | | JAN. . | 9 17 25 | 9 10 57 |
| | FEB. . | 9 14 59 | 10 4 41 | | FEB. . | 7 6 9 | 7 3 58 |
| | O | 24 9 21 | 24 8 47 | | MAR. . | 7 18 53 | 7 21 25 |
| | MAR. . | 11 8 43 | 11 16 25 | | APRIL . | 6 7 37 | 6 14 12 |
| | APRIL . | 9 16 27 | 10 1 35 | | MAY . | 5 20 21 | 6 5 24 |
| | MAY . | 9 5 11 | 9 8 59 | | JUNE . | 4 9 5 | 4 18 24 |
| | JUNE . | 7 17 55 | 7 15 39 | | JULY . | 3 21 49 | 4 5 31 |
| | JULY . | 7 6 39 | 6 22 40 | | AUG. . | 2 10 33 | 2 15 12 |
| | AUG. . | 5 19 23 | 5 7 10 | | SEPT. . | 1 23 17 | 1 6 15 |
| | O | 20 18 45 | 20 19 28 | | OCT. . | 30 12 1 | 30 9 31 |
| | SEPT. . | 4 8 7 | 3 18 5 | | NOV. . | 30 0 45 | 29 19 35 |
| | OCT. . | 8 20 51 | 8 8 4 | | DEC. . | 29 18 29 | 29 6 43 |
| | NOV. . | 2 9 33 | 2 0 57 | | | 18 7 51 | 18 17 2 |
| | DEC. . | 1 22 19 | 1 19 57 | | | 28 2 18 | 27 19 1 |
| | | 81 11 8 | 81 15 30 | | | | |
| 222. F. 21 16 20 | JAN. . | 29 23 48 | 30 9 58 | 225. H. 21 9 46 | JAN. . | 26 14 58 | 26 8 30 |
| | FEB. . | 28 12 32 | ... | | FEB. . | 25 3 42 | 24 23 6 |
| | MAR. . | ... | 1 1 58 | | MAR. . | 26 16 26 | 26 14 34 |
| | APRIL . | 80 1 16 | 80 14 52 | | APRIL . | 25 5 10 | 25 6 25 |
| | MAY . | 28 14 0 | 29 0 54 | | MAY . | 24 17 54 | 24 21 50 |
| | JUNE . | 28 15 28 | 28 15 45 | | JUNE . | 8 12 16 | 8 7 16 |
| | JULY . | 28 4 12 | 25 22 44 | | JULY . | 23 0 39 | 23 12 33 |
| | AUG. . | 24 16 58 | 24 0 50 | | AUG. . | 22 10 22 | 23 1 48 |
| | SEPT. . | 23 5 40 | 22 16 57 | | SEPT. . | 21 8 6 | 21 13 45 |
| | OCT. . | 22 18 24 | 22 5 41 | | OCT. . | 19 20 50 | 20 0 48 |
| | NOV. . | 21 7 8 | 20 21 9 | | NOV. . | 19 9 34 | 19 11 29 |
| | DEC. . | 20 19 52 | 20 14 52 | | DEC. . | 17 22 18 | 17 22 11 |
| | O | 4 14 14 | 4 20 1 | | | 17 11 2 | 17 9 2 |
| 223. I. 21 22 9 | JAN. . | 19 8 88 | 19 9 41 | 226. A. 21 15 35 | JAN. . | 15 23 46 | 15 30 6 |
| | FEB. . | 17 21 20 | 18 4 11 | | FEB. . | 14 12 30 | 14 7 30 |
| | MAR. . | 19 10 4 | 19 20 59 | | MAR. . | 16 1 14 | 15 19 31 |
| | APRIL . | 17 22 48 | 18 11 10 | | APRIL . | 14 18 58 | 14 9 31 |
| | MAY . | 17 11 32 | 17 22 37 | | MAY . | 14 2 42 | 13 24 40 |
| | JUNE . | 16 0 16 | 16 7 40 | | JUNE . | 12 15 26 | 12 13 45 |
| | O | 80 18 38 | 80 9 10 | | JULY . | 12 4 10 | 12 5 15 |
| | JULY . | 15 18 0 | 15 15 43 | | AUG. . | 10 16 54 | 10 30 29 |
| | AUG. . | 14 1 44 | 13 23 23 | | SEPT. . | 9 5 38 | 9 10 59 |
| | SEPT. . | 12 14 28 | 12 7 47 | | OCT. . | 8 18 22 | 9 0 29 |
| | OCT. . | 12 8 12 | 11 17 38 | | NOV. . | 7 7 6 | 7 18 2 |
| | NOV. . | 10 15 56 | 10 5 22 | | DEC. . | 6 19 50 | 7 0 44 |
| | DEC. . | 10 4 40 | 9 19 12 | | | | |
| | O | 24 23 2 | 23 9 41 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 227. G. March. d. h. m. 21 21 24 | | d. h. m. | d. h. m. | A.D. 230. C. March. d. h. m. 21 14 50 | | d. h. m. | d. h. m. |
| | JAN. . | 5 8 35 | 5 11 40 | | JAN. . | { 1 23 45 31 12 29 | 2 9 38 ... |
| | FEB. . | 3 21 19 | 3 21 51 | | FEB. . | ... | 1 1 45 |
| | MAR. . | 5 10 3 | 5 7 33 | | O | 15 6 51 | 15 1 4 |
| | APRIL | { 3 22 47 18 17 9 | 3 17 19 19 6 1 | | MAR. . | { 2 1 13 31 13 57 | 2 14 58 ... |
| | MAY . | 3 11 31 | 3 3 53 | | APRIL | 30 2 41 | { 1 1 7 30 9 13 |
| | JUNE . | 2 0 15 | 1 15 57 | | MAY . | 29 15 25 | 29 16 3 |
| | JULY . | { 1 13 0 31 1 44 | 1 5 53 30 21 28 | | JUNE . | 28 4 9 | 27 22 46 |
| | AUG. . | 29 14 28 | 29 14 5 | | JULY . | 27 16 53 | 27 6 27 |
| | SEPT. . | 28 3 12 | 28 6 51 | | O | { 11 11 15 26 5 37 | 11 16 32 25 16 7 |
| | O | { 12 21 34 27 15 56 | 12 10 2 27 22 54 | | AUG. . | 24 18 21 | 24 4 47 |
| | OCT. . | 26 4 40 | 26 13 37 | | SEPT. . | 24 7 5 | 23 20 10 |
| | NOV. . | 25 17 24 | 26 2 39 | | OCT. . | 22 19 49 | 22 14 17 |
| | DEC. . | | | | NOV. . | 22 8 33 | 22 9 44 |
| 228. P.E. 21 3 13 | JAN. . | 24 6 8 | 24 13 57 | 231. B. 21 20 39 | JAN. . | 20 21 18 | 21 4 52 |
| | FEB. . | 22 18 52 | 22 23 38 | | O | { 4 15 40 19 10 2 | 4 13 43 19 22 9 |
| | MAR. . | 23 7 36 | 23 8 11 | | FEB. . | 20 22 46 | 21 12 32 |
| | O | { 7 1 58 21 20 20 | 7 11 25 21 16 17 | | MAR. . | 19 11 30 | 19 23 53 |
| | APRIL | 21 9 4 | 21 0 52 | | APRIL | 19 0 14 | 19 8 45 |
| | MAY . | 19 21 48 | 19 10 55 | | MAY . | 17 12 58 | 17 16 3 |
| | JUNE . | 19 10 32 | 18 23 16 | | JUNE . | { 17 1 42 31 20 4 | 16 22 56 31 19 4 |
| | JULY . | 17 23 16 | 17 14 11 | | O | 15 14 26 | 15 6 30 |
| | AUG. . | 16 12 0 | 16 7 16 | | AUG. . | 14 3 10 | 13 15 39 |
| | SEPT. . | { 1 6 22 16 0 44 | 1 1 4 16 1 33 | | SEPT. . | 13 15 54 | 13 3 7 |
| | O | 14 13 28 | 14 19 45 | | OCT. . | 12 4 38 | 11 17 16 |
| | OCT. . | 14 2 12 | 14 12 35 | | NOV. . | 11 17 22 | 11 9 54 |
| 229. D. 21 9 2 | JAN. . | 12 14 56 | 13 3 8 | 232. A.G. 21 2 28 | JAN. . | { 10 6 6 25 0 27 | 10 4 10 25 5 36 |
| | FEB. . | 11 3 40 | 11 15 12 | | O | 8 18 50 | 8 22 51 |
| | MAR. . | 12 16 24 | 13 0 54 | | FEB. . | 9 7 34 | 9 16 29 |
| | APRIL | 11 5 8 | 11 8 54 | | MAR. . | 7 20 18 | 8 7 58 |
| | MAY . | 10 17 52 | 10 16 0 | | APRIL | 7 9 2 | 7 20 48 |
| | JUNE . | 9 6 36 | 8 23 16 | | MAY . | 5 21 46 | 6 7 1 |
| | JULY . | 8 19 20 | 8 7 47 | | JUNE . | { 5 10 30 20 4 52 | 5 15 33 19 19 41 |
| | AUG. . | 7 8 4 | 6 18 36 | | O | 3 23 14 | 3 28 28 |
| | SEPT. . | 5 20 48 | 5 8 21 | | AUG. . | 2 11 58 | 2 7 30 |
| | OCT. . | 5 9 32 | 5 1 0 | | SEPT. . | { 2 0 42 31 13 26 | 1 16 43 31 3 35 |
| | NOV. . | 3 22 16 | 3 19 46 | | OCT. . | 30 2 10 | 29 16 21 |
| | DEC. . | 3 11 0 | 3 15 11 | | NOV. . | 29 14 54 | 29 7 2 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 233. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 236. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | | | | C.B. | | | |
| March. | JAN. . | 28 3 39 | 27 23 17 | March. | JAN. . | 25 18 49 | 25 21 11 |
| <i>d. h. m.</i> | FEB. . | 26 16 23 | 26 16 23 | <i>d. h. m.</i> | FEB. . | 24 7 33 | 24 6 52 |
| 21 8 17 | MAR. . | 28 5 7 | 28 9 25 | 21 1 43 | MAR. . | 24 20 17 | 24 16 17 |
| | APRIL | 26 17 51 | 27 1 23 | | APRIL | 23 9 1 | 23 2 6 |
| | MAY . | 26 6 35 | 26 15 34 | | ○ | { 8 3 23 | 8 14 56 |
| | JUNE . | 24 19 19 | 25 3 44 | | MAY . | { 22 21 45 | 22 13 8 |
| | JULY . | 24 8 3 | 24 14 12 | | JUNE . | 21 10 29 | 21 1 59 |
| | AUG. . | 22 20 47 | 22 23 40 | | JULY . | 20 23 13 | 20 16 39 |
| | SEPT. . | 21 9 31 | 21 8 59 | | AUG. . | 19 11 57 | 19 9 10 |
| | OCT. . | 20 22 15 | 20 18 48 | | SEPT. . | 18 0 41 | 18 2 12 |
| | NOV. . | 19 10 59 | 19 5 28 | | OCT. . | 17 13 25 | 17 18 59 |
| | DEC. . | 18 23 43 | 18 17 7 | | NOV. . | 16 2 9 | 16 10 40 |
| | | | | | DEC. . | 15 14 53 | 16 0 42 |
| 234. | JAN. . | 17 12 28 | 17 5 51 | 237. | JAN. . | 14 3 37 | 14 12 50 |
| E. | FEB. . | 16 1 12 | 15 19 36 | A. | FEB. . | 12 16 21 | 12 23 11 |
| 21 14 6 | MAR. . | 17 13 56 | 17 10 23 | 21 7 32 | MAR. . | 14 5 5 | 14 8 3 |
| | APRIL | 16 2 40 | 16 1 52 | | APRIL | 12 17 49 | 12 16 5 |
| | MAY . | { 15 15 24 | 15 17 31 | | MAY . | 12 6 33 | 12 0 7 |
| | ○ | { 30 9 46 | 30 7 35 | | JUNE . | 10 19 17 | 10 9 11 |
| | JUNE . | 14 4 8 | 14 8 41 | | JULY . | 10 8 1 | 9 20 13 |
| | JULY . | 13 16 52 | 13 22 46 | | AUG. . | 8 20 45 | 8 9 53 |
| | AUG. . | 12 5 36 | 12 11 35 | | SEPT. . | { 7 9 29 | 7 2 5 |
| | SEPT. . | 10 18 20 | 10 23 19 | | ○ | { 22 3 51 | 22 0 34 |
| | OCT. . | 10 7 4 | 10 10 23 | | OCT. . | 6 22 13 | 6 20 6 |
| | NOV. . | { 8 19 48 | 8 21 15 | | NOV. . | 5 10 57 | 5 14 43 |
| | ○ | { 23 14 10 | 23 11 47 | | DEC. . | 4 23 41 | 5 8 32 |
| | DEC. . | 8 8 32 | 8 8 5 | | | | |
| 235. | JAN. . | 6 21 16 | 6 18 58 | 238. | JAN. . | 3 12 26 | 4 0 24 |
| D. | FEB. . | 5 10 0 | 5 5 56 | G. | FEB. . | 2 1 10 | 2 13 41 |
| 21 19 55 | MAR. . | 6 22 44 | 6 17 19 | 21 13 21 | MAR. . | { 3 13 54 | 4 0 23 |
| | APRIL | 5 11 28 | 5 5 30 | | ○ | { 18 8 16 | 18 7 7 |
| | MAY . | { 5 0 12 | 4 18 50 | | APRIL | 2 2 33 | 2 8 59 |
| | ○ | { 19 18 34 | 20 0 48 | | MAY . | { 1 15 22 | 1 16 17 |
| | JUNE . | 3 12 56 | 3 9 22 | | ○ | { 31 4 6 | 30 23 15 |
| | JULY . | 3 1 40 | 3 0 45 | | JUNE . | 29 16 50 | 29 6 57 |
| | AUG. . | { 1 14 24 | 1 16 22 | | JULY . | 29 5 34 | 28 16 30 |
| | ○ | { 31 3 8 | 31 7 31 | | AUG. . | 27 18 13 | 27 4 47 |
| | SEPT. . | 29 15 52 | 29 21 50 | | ○ | { 11 12 40 | 11 16 10 |
| | OCT. . | 29 4 36 | 29 11 9 | | SEPT. . | { 26 7 2 | 25 20 7 |
| | ○ | { 12 22 58 | 12 12 39 | | OCT. . | 25 19 46 | 25 14 5 |
| | NOV. . | 27 17 20 | 27 23 25 | | NOV. . | 24 8 30 | 24 9 23 |
| | DEC. . | 27 6 4 | 27 10 46 | | DEC. . | 23 21 14 | 24 4 39 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 239. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 242. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | | | | B. | | | |
| March. | JAN. . | 22 9 59 | 22 22 5 | March. | JAN. . | { 4 6 47 | 4 18 18 |
| <i>d. h. m.</i> | FEB. . | 20 22 43 | 21 12 41 | <i>d. h. m.</i> | FEB. . | { 19 1 9 | 18 19 8 |
| 21 19 10 | ○ | { 7 17 5 | 7 11 29 | 21 12 36 | MAR. . | 17 13 53 | 17 11 33 |
| | MAR. . | { 22 11 27 | 23 0 14 | | MAR. . | 19 2 37 | 19 4 29 |
| | APRIL | 21 0 11 | 21 9 13 | | APRIL | 17 15 21 | 17 20 56 |
| | MAY . | 20 12 55 | 20 16 28 | | MAY . | 17 4 5 | 17 12 2 |
| | JUNE . | 19 1 39 | 18 23 6 | | JUNE . | { 15 16 49 | 16 1 18 |
| | JULY . | 18 14 23 | 18 6 11 | | ○ | { 30 11 11 | 30 0 0 |
| | AUG. . | { 17 3 7 | 16 14 50 | | JULY . | 15 5 33 | 15 12 44 |
| | ○ | { 81 21 29 | { 1 2 58 | | AUG. . | 13 18 17 | 13 22 51 |
| | SEPT. . | 15 15 51 | 15 1 55 | | SEPT. . | 12 7 1 | 12 8 24 |
| | OCT. . | 15 4 35 | 14 16 1 | | OCT. . | 11 19 45 | 11 18 7 |
| | NOV. . | 18 17 19 | 18 8 59 | | NOV. . | 10 8 29 | 10 4 27 |
| | DEC. . | 13 6 3 | 13 3 56 | | DEC. . | { 9 21 13 | 9 15 37 |
| | | | | | ○ | { 24 15 35 | 25 1 15 |
| 240. | JAN. . | 11 18 47 | 11 23 23 | 243. | JAN. . | 8 9 57 | 8 3 39 |
| E.D. | FEB. . | 10 7 31 | 10 17 39 | A. | FEB. . | 6 22 41 | 6 16 38 |
| 21 0 58 | MAR. . | 10 20 15 | 11 9 27 | 21 18 25 | MAR. . | 8 11 25 | 8 6 36 |
| | APRIL | 9 8 59 | 9 22 14 | | APRIL | 7 0 9 | 6 21 30 |
| | MAY . | 8 21 43 | 9 8 13 | | MAY . | 6 12 53 | 6 12 58 |
| | JUNE . | 7 10 27 | 7 16 12 | | JUNE . | { 5 1 37 | 5 4 25 |
| | JULY . | 6 23 11 | 6 23 14 | | ○ | { 19 19 59 | 19 14 40 |
| | AUG. . | 5 11 55 | 5 6 28 | | JULY . | 4 14 21 | 4 19 13 |
| | SEPT. . | 4 0 39 | 3 14 51 | | AUG. . | 3 3 5 | 3 8 53 |
| | OCT. . | 3 13 23 | 3 1 12 | | SEPT. . | 1 15 49 | 1 21 24 |
| | NOV. . | 2 2 7 | 1 14 3 | | ○ | { 1 4 33 | 1 9 2 |
| | DEC. . | { 1 14 51 | 1 5 27 | | OCT. . | { 30 17 17 | 30 20 12 |
| | | { 31 3 35 | 30 22 55 | | NOV. . | 29 6 1 | 29 7 8 |
| 241. | ○ | { 14 21 57 | 15 4 48 | 244. | JAN. . | 27 7 29 | 27 4 42 |
| C. | JAN. . | { 29 16 19 | 29 17 23 | G.F. | FEB. . | 25 20 13 | 25 15 35 |
| 21 6 47 | FEB. . | 23 5 4 | 28 11 31 | 21 0 14 | MAR. . | 26 8 58 | 26 3 1 |
| | MAR. . | 29 17 43 | 30 4 3 | | APRIL | 24 21 42 | 24 15 28 |
| | APRIL | 23 6 32 | 23 19 9 | | MAY . | 24 10 26 | 24 5 15 |
| | MAY . | 27 19 16 | 23 5 40 | | JUNE . | 22 23 10 | 22 20 13 |
| | JUNE . | 26 8 0 | 26 15 5 | | JULY . | 22 11 54 | 22 11 55 |
| | ○ | { 11 2 22 | 10 15 56 | | AUG. . | 21 0 33 | 21 3 36 |
| | JULY . | { 25 20 44 | 25 23 13 | | SEPT. . | 19 13 22 | 19 18 40 |
| | AUG. . | 24 9 23 | 24 7 22 | | OCT. . | 19 2 6 | 19 8 47 |
| | SEPT. . | 22 22 12 | 22 16 8 | | NOV. . | 17 14 50 | 17 21 47 |
| | OCT. . | 22 10 56 | 22 2 15 | | DEC. . | 17 3 34 | 17 9 40 |
| | NOV. . | 20 23 40 | 20 14 5 | | | | |
| | DEC. . | 20 12 24 | 20 3 44 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 245. E. March. d. h. m. 21 6 3 | | d. h. m. | d. h. m. | A.D. 248. B.A. March. d. h. m. 20 23 29 | | d. h. m. | d. h. m. |
| | JAN. . | 15 16 19 | 15 20 28 | | JAN. . | 13 7 29 | 13 17 41 |
| | FEB. . | 14 5 3 | 14 6 20 | | FEB. . | { 11 20 13 | 12 9 43 |
| | MAR. . | 15 17 47 | 15 15 34 | | ○ | { 26 14 35 | 26 9 1 |
| | APRIL | { 14 6 31 | 14 0 50 | | MAR. . | 12 8 57 | 12 22 42 |
| | ○ | { 29 0 53 | 29 13 10 | | APRIL | 10 21 41 | 11 8 48 |
| | MAY . | 13 19 15 | 13 10 56 | | MAY . | 10 10 25 | 10 16 43 |
| | JUNE . | 12 7 59 | 11 22 41 | | JUNE . | 8 23 9 | 8 23 31 |
| | JULY . | 11 20 43 | 11 12 31 | | JULY . | 8 11 53 | 8 6 16 |
| | AUG. . | 10 9 27 | 10 4 15 | | AUG. . | 7 0 37 | 6 14 5 |
| | SEPT. . | 8 22 11 | 8 21 16 | | SEPT. . | 5 13 21 | 4 23 53 |
| | OCT. . | { 8 10 55 | 8 14 33 | | OCT. . | 5 2 5 | 4 12 36 |
| | ○ | { 23 5 17 | 22 18 34 | | NOV. . | 3 14 49 | 3 4 14 |
| | NOV. . | 6 23 39 | 7 7 8 | | DEC. . | 3 8 33 | 2 22 19 |
| | DEC. . | 6 12 23 | 6 22 13 | | | | |
| 246. D. 21 11 51 | JAN. . | 5 1 7 | 5 11 21 | 249. G. 21 5 18 | JAN. . | { 1 16 17 | 1 17 39 |
| | FEB. . | 3 13 51 | 3 22 30 | | FEB. ○ | { 31 5 1 | 31 12 35 |
| | MAR. . | 5 2 35 | 5 7 53 | | MAR. . | { 1 17 45 | 2 5 39 |
| | APRIL | { 3 15 19 | 3 16 2 | | ○ | { 31 6 29 | 31 19 53 |
| | ○ | { 18 9 41 | 18 18 13 | | APRIL | 29 19 13 | 30 7 11 |
| | MAY . | 3 4 3 | 2 23 46 | | MAY . | 29 7 57 | 29 16 3 |
| | JUNE . | 1 16 47 | { 1 8 3 | | JUNE . | 27 20 41 | 27 23 29 |
| | JULY . | { 1 5 31 | { 30 17 55 | | JULY . | 27 9 25 | 27 6 38 |
| | ○ | { 30 18 15 | 30 6 13 | | ○ | { 11 3 47 | 11 1 51 |
| | AUG. . | 29 6 59 | 28 21 15 | | AUG. . | { 25 22 9 | 25 14 23 |
| | SEPT. . | 27 19 43 | 27 14 39 | | SEPT. . | 24 10 53 | 23 23 53 |
| | ○ | { 12 14 5 | 12 9 40 | | OCT. . | 23 23 37 | 23 11 32 |
| | OCT. . | { 27 8 27 | 27 9 20 | | NOV. . | 22 12 21 | 22 1 40 |
| | NOV. . | 25 21 11 | 26 3 53 | | DEC. . | 22 1 5 | 21 18 4 |
| | DEC. . | 25 9 55 | 25 20 56 | | | | |
| 247. G. 21 17 40 | JAN. . | 23 22 40 | 24 11 33 | 250. F. 21 11 7 | JAN. . | 20 13 50 | 20 12 1 |
| | FEB. . | 22 11 24 | 22 23 26 | | ○ | { 4 8 12 | 4 14 14 |
| | MAR. . | 24 0 8 | 24 8 52 | | FEB. . | { 19 2 34 | 19 6 17 |
| | APRIL | 22 12 52 | 22 16 35 | | MAR. . | 20 15 18 | 20 23 35 |
| | MAY . | 22 1 36 | 21 23 29 | | APRIL | 19 4 2 | 19 14 53 |
| | JUNE . | 20 14 20 | 20 6 36 | | MAY . | 18 16 46 | 19 3 41 |
| | JULY . | 20 3 4 | 19 15 6 | | JUNE . | 17 5 30 | 17 14 9 |
| | AUG. . | 18 15 43 | 18 1 59 | | JULY . | { 16 18 14 | 16 23 0 |
| | SEPT. . | 17 4 32 | 16 15 52 | | ○ | { 31 12 36 | 31 2 31 |
| | OCT. . | 16 17 16 | 16 8 42 | | AUG. . | 15 6 53 | 15 7 13 |
| | NOV. . | 15 6 0 | 15 3 39 | | SEPT. . | 13 19 42 | 13 15 44 |
| | DEC. . | 14 18 44 | 14 23 13 | | OCT. . | 13 8 26 | 13 1 13 |
| | | | | | NOV. . | 11 21 10 | 11 12 20 |
| | | | | | DEC. . | 11 9 54 | 11 1 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 251. E. March. d. h. m. 21 16 56 | JAN. . | d. h. m. 9 22 38 | d. h. m. 9 15 21 | A.D. 254. A. March. d. h. m. 21 10 22 | JAN. . | d. h. m. 6 13 48 | d. h. m. 6 19 37 |
| | FEB. . | 8 11 22 | 8 7 4 | | FEB. . | 5 2 32 | 5 5 48 |
| | MAR. . | 10 0 6 | 9 23 37 | | MAR. . | 6 15 16 | 6 15 4 |
| | APRIL . | 8 12 50 | 8 16 12 | | APRIL . | 5 4 0 | 4 23 58 |
| | MAY . | 8 1 34 | 8 7 59 | | MAY . | 4 16 44 | 4 9 19 |
| | JUNE . | 6 14 18 | 6 22 15 | | ○ | 19 11 6 | 19 22 2 |
| | JULY . | 6 3 2 | 6 10 42 | | JUNE . | 3 5 28 | 2 19 59 |
| | AUG. . | 4 15 46 | 4 21 37 | | JULY . | 2 18 12 | 2 8 40 |
| | SEPT. . | 3 4 30 | 3 7 36 | | AUG. . | 1 6 56 | 31 23 33 |
| | OCT. . | 2 17 14 | 2 17 25 | | ○ | 30 19 40 | 30 16 11 |
| | NOV. . | 1 5 58 | 1 3 35 | | SEPT. . | 29 8 24 | 29 9 42 |
| | DEC. . | 30 18 42 | 30 14 22 | | OCT. . | 28 21 8 | 29 3 1 |
| | | 30 7 26 | 30 1 54 | | ○ | 12 15 30 | 12 5 2 |
| | | | | | NOV. . | 27 9 52 | 27 19 7 |
| | | | | | DEC. . | 26 22 36 | 27 9 21 |
| 252. D.C. 20 22 41 | JAN. . | 23 20 11 | 23 14 11 | 255. G. 21 16 11 | JAN. . | 25 11 21 | 25 21 23 |
| | FEB. . | 27 8 55 | 27 3 23 | | FEB. . | 24 0 5 | 24 7 33 |
| | MAR. . | 27 21 39 | 27 17 31 | | MAR. . | 25 12 49 | 25 16 3 |
| | APRIL . | 26 10 23 | 26 8 31 | | APRIL . | 24 1 33 | 23 23 43 |
| | MAY . | 25 23 7 | 25 23 58 | | MAY . | 23 14 17 | 23 7 25 |
| | ○ | 9 17 29 | 9 14 58 | | JUNE . | 22 3 1 | 21 16 15 |
| | JUNE . | 24 11 51 | 24 15 13 | | JULY . | 21 15 45 | 21 3 14 |
| | JULY . | 24 0 35 | 24 5 40 | | AUG. . | 20 4 29 | 19 16 58 |
| | AUG. . | 22 13 19 | 22 19 0 | | SEPT. . | 18 17 13 | 18 9 24 |
| | SEPT. . | 21 2 3 | 21 7 20 | | ○ | 3 11 33 | 3 9 4 |
| | OCT. . | 20 14 47 | 20 18 57 | | OCT. . | 18 5 57 | 18 3 44 |
| | NOV. . | 19 3 31 | 19 5 59 | | NOV. . | 16 18 41 | 16 22 44 |
| | ○ | 3 21 53 | 3 19 46 | | DEC. . | 16 7 25 | 16 16 48 |
| | DEC. . | 18 16 15 | 18 17 2 | | | | |
| 253. B. 21 4 38 | JAN. . | 17 5 0 | 17 3 43 | 256. F.E. 20 22 0 | JAN. . | 14 20 10 | 15 8 45 |
| | FEB. . | 15 17 44 | 15 14 16 | | FEB. . | 13 8 54 | 13 21 56 |
| | MAR. . | 17 6 28 | 17 1 4 | | MAR. . | 13 21 38 | 14 8 25 |
| | APRIL . | 15 19 12 | 15 12 40 | | ○ | 23 16 0 | 28 14 9 |
| | MAY . | 15 7 56 | 15 1 32 | | APRIL . | 12 10 22 | 12 16 46 |
| | ○ | 30 2 18 | 30 8 11 | | MAY . | 11 23 6 | 11 23 50 |
| | JUNE . | 13 20 40 | 13 15 51 | | JUNE . | 10 11 50 | 10 6 37 |
| | JULY . | 13 9 24 | 13 7 19 | | JULY . | 10 0 34 | 9 14 18 |
| | AUG. . | 11 22 8 | 11 23 16 | | AUG. . | 8 13 18 | 7 23 55 |
| | SEPT. . | 10 10 52 | 10 14 59 | | SEPT. . | 7 2 2 | 6 12 19 |
| | OCT. . | 9 23 36 | 10 5 55 | | ○ | 21 20 24 | 22 0 21 |
| | NOV. . | 8 12 20 | 8 19 43 | | OCT. . | 6 14 46 | 6 3 49 |
| | ○ | 23 6 42 | 22 20 54 | | NOV. . | 5 3 30 | 4 21 56 |
| | DEC. . | 8 1 4 | 8 8 17 | | DEC. . | 4 16 14 | 4 17 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 257. D. March. d. h. m. 21 3 49 | | d. h. m. | d. h. m. | A.D. 260. A.G. March. d. h. m. 20 21 15 | | d. h. m. | d. h. m. |
| | JAN. . | 3 4 58 | 3 12 40 | | ○ | { 15 14 30 | 16 2 48 |
| | FEB. . | 1 17 42 | 2 6 0 | | JAN. . | { 30 8 52 | 30 3 5 |
| | MAR. . | { 3 6 26 | 3 20 29 | | FEB. . | { 28 21 36 | 28 18 59 |
| | ○ | { 18 0 48 | 17 19 3 | | MAR. . | { 29 10 20 | 29 11 25 |
| | APRIL | 1 19 10 | 2 7 52 | | APRIL | 27 23 4 | 28 3 33 |
| | MAY . | { 1 7 54 | 1 16 42 | | MAY . | 27 11 48 | 27 18 37 |
| | JUNE . | { 30 20 38 | 30 23 53 | | JUNE . | 26 0 32 | 26 8 6 |
| | JULY . | 29 9 22 | 29 6 33 | | ○ | { 10 18 54 | 10 7 12 |
| | AUG. . | 28 22 6 | 28 13 48 | | JULY . | { 25 13 16 | 25 19 56 |
| | ○ | { 11 5 12 | 11 10 34 | | AUG. . | 24 2 0 | 24 6 34 |
| | SEPT. . | { 25 23 34 | 25 9 55 | | SEPT. . | 22 14 44 | 22 16 40 |
| | OCT. . | 25 12 18 | 25 0 7 | | OCT. . | 22 3 28 | 22 2 48 |
| | NOV. . | 24 1 2 | 23 17 5 | | NOV. . | 20 16 12 | 20 13 22 |
| | DEC. . | 23 13 46 | 23 11 55 | | DEC. . | 20 4 56 | 20 0 30 |
| 258. C. 21 9 37 | JAN. . | 22 2 31 | 22 7 8 | 261. F. 21 3 4 | ○ | { 3 23 19 | 4 9 23 |
| | FEB. . | 20 15 15 | 21 1 10 | | JAN. . | { 18 17 41 | 18 12 14 |
| | MAR. . | 22 3 59 | 22 16 48 | | FEB. . | 17 6 25 | 17 0 40 |
| | APRIL | 20 16 43 | 21 5 29 | | MAR. . | 18 19 9 | 18 14 1 |
| | MAY . | 20 5 27 | 20 15 28 | | APRIL | 17 7 53 | 17 4 22 |
| | JUNE . | 18 18 11 | 18 23 33 | | MAY . | 16 20 37 | 16 19 30 |
| | JULY . | 18 6 55 | 18 6 49 | | JUNE . | { 15 9 21 | 15 10 53 |
| | AUG. . | 16 19 39 | 16 14 20 | | ○ | { 30 3 43 | 29 22 7 |
| | SEPT. . | 15 8 23 | 14 23 2 | | JULY . | 14 22 5 | 15 1 55 |
| | OCT. . | 14 21 7 | 14 9 38 | | AUG. . | 13 10 49 | 13 16 4 |
| | NOV. . | 13 9 51 | 12 22 32 | | SEPT. . | 11 23 33 | 12 5 11 |
| | DEC. . | 12 22 35 | 12 13 48 | | OCT. . | 11 12 17 | 11 17 25 |
| 259. B. 21 15 26 | JAN. . | { 11 11 20 | 11 6 55 | 262. E. 21 8 53 | ○ | { 9 13 45 | 9 16 6 |
| | ○ | { 26 5 42 | 26 13 31 | | JAN. . | 8 2 30 | 8 2 51 |
| | FEB. . | 10 0 4 | 10 0 57 | | FEB. . | 6 15 14 | 6 13 15 |
| | MAR. . | 11 12 48 | 11 18 42 | | MAR. . | 8 3 58 | 7 23 36 |
| | APRIL | 10 1 32 | 10 10 59 | | APRIL | 6 16 42 | 6 10 26 |
| | MAY . | 9 14 16 | 10 1 2 | | MAY . | 6 5 26 | 5 22 23 |
| | JUNE . | 8 3 0 | 8 12 41 | | JUNE . | 4 13 10 | 4 11 49 |
| | JULY . | { 7 15 44 | 7 22 22 | | JULY . | 4 6 54 | 4 2 44 |
| | ○ | { 22 10 6 | 21 22 47 | | AUG. . | 2 19 38 | 2 18 38 |
| | AUG. . | 6 4 28 | 6 6 58 | | SEPT. . | { 1 8 22 | 1 10 48 |
| | SEPT. . | 4 17 12 | 4 15 27 | | ○ | { 30 21 6 | { 1 2 30 |
| | OCT. . | 4 5 56 | 4 0 33 | | OCT. . | 30 9 50 | { 30 17 10 |
| | NOV. . | 2 18 40 | 2 10 59 | | NOV. . | 28 22 34 | 29 6 33 |
| | DEC. . | { 2 7 24 | 1 22 50 | | DEC. . | 28 11 13 | 28 18 33 |
| | | { 31 20 8 | 31 12 14 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 263. D. March. d. h. m. 21 14 42 | | d. h. m. | d. h. m. | A.D. 266. G. March. d. h. m. 21 8 8 | | d. h. m. | d. h. m. |
| | JAN. . | 27 0 2 | 27 5 11 | | JAN. . | 23 15 12 | 24 1 36 |
| | FEB. . | 25 12 46 | 25 14 41 | | FEB. . | 22 3 56 | 22 17 31 |
| | MAR. . | 27 1 30 | 26 23 27 | | ○ { | 8 22 18 | 8 16 51 |
| | APRIL | 25 14 14 | 25 8 14 | | MAR. . | 23 16 40 | 24 6 21 |
| | ○ { | 10 8 36 | 10 20 11 | | APRIL | 22 5 24 | 22 16 18 |
| | MAY . | 25 2 58 | 24 17 57 | | MAY . | 21 18 8 | 22 0 9 |
| | JUNE . | 23 15 42 | 23 5 27 | | JUNE . | 20 6 52 | 20 6 57 |
| | JULY . | 23 4 26 | 22 19 13 | | JULY . | 19 19 36 | 19 13 50 |
| | AUG. . | 21 17 10 | 21 11 9 | | AUG. . | 18 8 20 | 17 21 51 |
| | SEPT. . | 20 5 54 | 20 4 34 | | SEPT. . | 16 21 4 | 16 7 56 |
| | OCT. . | 19 18 38 | 19 22 22 | | OCT. . | 16 9 48 | 15 20 44 |
| | ○ { | 3 13 0 | 3 3 12 | | NOV. . | 14 22 32 | 14 12 24 |
| | NOV. . | 18 7 22 | 18 15 25 | | DEC. . | 14 11 16 | 14 6 22 |
| | DEC. . | 17 20 6 | 18 6 47 | | | | |
| 264. C.B. 20 20 30 | JAN. . | 16 8 51 | 16 20 0 | 267. F. 21 13 57 | JAN. . | 13 0 1 | 13 1 29 |
| | FEB. . | 14 21 35 | 15 6 57 | | FEB. . | 11 12 45 | 11 20 10 |
| | MAR. . | 15 10 19 | 15 16 0 | | ○ { | 26 7 7 | 26 6 23 |
| | APRIL | 13 23 3 | 13 23 49 | | MAR. . | 13 1 29 | 13 13 0 |
| | ○ { | 28 17 25 | 29 0 56 | | APRIL | 11 14 13 | 12 3 6 |
| | MAY . | 13 11 47 | 13 7 11 | | MAY . | 11 2 57 | 11 14 21 |
| | JUNE . | 12 0 31 | 11 15 13 | | JUNE . | 9 15 41 | 9 23 20 |
| | JULY . | 11 13 15 | 11 0 59 | | JULY . | 9 4 25 | 9 6 58 |
| | AUG. . | 10 1 59 | 9 13 19 | | AUG. . | 7 17 9 | 7 14 23 |
| | SEPT. . | 8 14 43 | 8 4 31 | | ○ { | 22 11 31 | 22 8 46 |
| | OCT. . | 8 3 27 | 7 22 11 | | SEPT. . | 6 5 53 | 5 22 33 |
| | ○ { | 22 21 49 | 22 18 22 | | OCT. . | 5 18 37 | 5 8 17 |
| | NOV. . | 6 16 11 | 6 17 13 | | NOV. . | 4 7 21 | 3 20 4 |
| | DEC. . | 6 4 55 | 6 12 2 | | DEC. . | 3 20 5 | 3 10 8 |
| 265. A. 21 2 19 | JAN. . | 4 17 39 | 5 5 13 | 268. E.D. 20 19 46 | JAN. . | 2 8 49 | 2 2 15 |
| | FEB. . | 3 6 23 | 3 19 47 | | { | 31 21 33 | 31 19 44 |
| | MAR. . | 4 19 7 | 5 7 30 | | FEB. . | ... | ... |
| | APRIL | 3 7 51 | 3 16 42 | | ○ { | 15 15 55 | 15 22 42 |
| | MAY . | 2 20 35 | 3 0 9 | | { | 1 10 17 | 1 13 34 |
| | JUNE . | 1 9 19 | 1 6 53 | | MAR. . | 30 23 1 | 31 6 31 |
| | { | 30 22 3 | 30 13 59 | | APRIL | 29 11 45 | 29 21 42 |
| | JULY . | 30 10 47 | 29 22 31 | | MAY . | 29 0 29 | 29 10 34 |
| | AUG. . | 28 23 31 | 28 9 30 | | JUNE . | 27 13 13 | 27 21 16 |
| | SEPT. . | 27 12 15 | 26 23 32 | | JULY . | 27 1 57 | 27 6 29 |
| | ○ { | 12 6 37 | 12 9 57 | | ○ { | 10 20 19 | 10 9 27 |
| | OCT. . | 27 0 59 | 26 16 33 | | AUG. . | 25 14 41 | 25 15 9 |
| | NOV. . | 25 13 43 | 25 11 36 | | SEPT. . | 24 3 25 | 24 0 7 |
| | DEC. . | 25 2 27 | 25 7 11 | | OCT. . | 23 16 9 | 23 9 58 |
| | | | | | NOV. . | 22 4 53 | 21 21 7 |
| | | | | | DEC. . | 21 17 37 | 21 9 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 269. C. March. <i>d. h. m.</i> 21 1 34 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 272. G.F. March. <i>d. h. m.</i> 20 19 1 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 20 6 22 | 19 23 36 | | JAN. . | 17 21 32 | 18 4 24 |
| | FEB. . | 18 19 6 | 18 14 46 | | FEB. . | 16 10 16 | 16 14 17 |
| | MAR. . | 20 7 50 | 20 6 44 | | MAR. . | 16 23 0 | 16 23 8 |
| | APRIL | 18 20 34 | 18 22 56 | | APRIL | 15 11 44 | 15 7 34 |
| | MAY . | 18 9 18 | 18 14 32 | | MAY . | { 15 0 28 | 14 16 30 |
| | JUNE . | 16 22 2 | 17 4 54 | | ○ | { 29 18 50 | 30 5 6 |
| | JULY . | 16 10 46 | 16 17 43 | | JUNE . | 13 13 12 | 13 2 53 |
| | AUG. . | 14 23 30 | 15 5 9 | | JULY . | 13 1 56 | 12 15 26 |
| | SEPT. . | 13 12 14 | 13 15 42 | | AUG. . | 11 14 40 | 11 6 24 |
| | OCT. . | 13 0 58 | 13 1 58 | | SEPT. . | 10 3 24 | 9 23 21 |
| | NOV. . | 11 13 42 | 11 12 28 | | OCT. . | 9 16 8 | 9 17 20 |
| | DEC. . | 11 2 26 | 10 23 19 | | NOV. . | { 8 4 52 | 8 11 8 |
| | | | | | ○ | { 22 23 14 | 22 13 44 |
| | | | | | DEC. . | 7 17 36 | 8 3 36 |
| 270. R. 21 7 23 | JAN. . | 9 15 11 | 9 10 39 | 273. E. . 21 0 50 | JAN. . | 6 6 21 | 6 17 59 |
| | FEB. . | 8 3 55 | 7 22 23 | | FEB. . | 4 19 5 | 5 5 58 |
| | MAR. . | 9 16 39 | 9 11 2 | | MAR. . | 6 7 49 | 6 15 47 |
| | APRIL | 8 5 23 | 8 0 36 | | APRIL | 4 20 33 | 4 23 56 |
| | MAY . | 7 13 7 | 7 15 9 | | MAY . | 4 9 17 | 4 7 15 |
| | JUNE . | { 6 6 51 | 6 6 25 | | JUNE . | 2 22 1 | 2 14 42 |
| | ○ | { 21 1 13 | 20 22 26 | | JULY . | { 2 10 45 | 1 23 25 |
| | JULY . | 5 19 35 | 5 21 46 | | | { 31 23 29 | 31 10 22 |
| | AUG. . | 4 8 19 | 4 12 37 | | AUG. . | 30 12 13 | 30 0 12 |
| | SEPT. . | 2 21 3 | 3 2 32 | | SEPT. . | 29 0 57 | 28 16 52 |
| | OCT. . | { 2 9 47 | 2 15 29 | | ○ | { 13 19 19 | 13 17 40 |
| | | { 31 22 31 | { 1 3 36 | | OCT. . | { 28 13 41 | 28 11 31 |
| | NOV. . | 30 11 15 | { 30 15 4 | | NOV. . | 27 2 25 | 27 6 46 |
| | ○ | { 15 5 37 | 15 3 44 | | DEC. . | 26 15 9 | 27 1 0 |
| | DEC. . | { 29 23 59 | 30 1 59 | | | | |
| 271. A. 21 13 12 | JAN. . | 28 12 43 | 28 12 23 | 274. D. 21 6 39 | JAN. . | 25 3 53 | 25 16 58 |
| | FEB. . | 27 1 27 | 26 22 28 | | FEB. . | 23 16 37 | 24 6 2 |
| | MAR. . | 28 14 11 | 28 8 42 | | MAR. . | 25 5 21 | 25 16 18 |
| | APRIL | 27 2 55 | 26 19 45 | | ○ | { 8 23 43 | 8 21 5 |
| | MAY . | 26 15 39 | 26 8 13 | | APRIL | { 23 18 5 | 24 0 24 |
| | ○ | { 10 10 1 | 10 15 33 | | MAY . | 23 6 49 | 23 7 18 |
| | JUNE . | { 25 4 23 | 24 22 21 | | JUNE . | 21 19 33 | 21 14 2 |
| | JULY . | 24 17 7 | 24 13 54 | | JULY . | 21 8 17 | 20 21 44 |
| | AUG. . | 23 5 51 | 23 6 14 | | AUG. . | 19 21 1 | 19 7 27 |
| | SEPT. . | 21 18 35 | 21 22 32 | | SEPT. . | 18 9 45 | 17 20 1 |
| | OCT. . | 21 7 19 | 21 14 3 | | ○ | { 3 4 7 | 3 8 37 |
| | NOV. . | 19 20 3 | 20 4 19 | | OCT. . | { 17 22 29 | 17 11 39 |
| | ○ | { 4 14 25 | 4 5 12 | | NOV. . | 16 11 13 | 16 5 53 |
| | DEC. . | { 19 8 47 | 19 17 7 | | DEC. . | 15 23 57 | 16 1 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 275. c. March. d. h. m. 21 12 27 | | d. h. m. | d. h. m. | A.D. 278. F. March. d. h. m. 21 5 54 | | d. h. m. | d. h. m. |
| | JAN. . | 14 12 42 | 14 20 35 | | JAN. . | 11 3 52 | 10 20 43 |
| | FEB. . | 13 1 26 | 13 13 48 | | ○ | 25 22 14 | 26 11 11 |
| | MAR. . | 14 14 10 | 15 4 8 | | FEB. . | 9 16 36 | 9 11 1 |
| | ○ | 29 8 32 | 29 2 32 | | MAR. . | 11 5 20 | 11 2 19 |
| | APRIL | 13 2 54 | 13 15 23 | | APRIL | 9 18 4 | 9 18 15 |
| | MAY . | 12 15 38 | 13 0 7 | | MAY . | 9 6 48 | 9 10 7 |
| | JUNE . | 11 4 22 | 11 7 19 | | JUNE . | 7 19 32 | 8 1 11 |
| | JULY . | 10 17 6 | 10 14 5 | | JULY . | 7 8 16 | 7 14 56 |
| | AUG. . | 9 5 50 | 8 21 32 | | ○ | 22 2 38 | 21 14 32 |
| | SEPT. . | 7 18 34 | 7 6 36 | | AUG. . | 5 21 0 | 6 3 15 |
| | ○ | 22 12 56 | 22 18 19 | | SEPT. . | 4 9 44 | 4 14 26 |
| | OCT. . | 7 7 18 | 6 18 5 | | OCT. . | 3 22 28 | 4 1 3 |
| | NOV. . | 5 20 2 | 5 8 21 | | NOV. . | 2 11 12 | 2 11 36 |
| | DEC. . | 5 8 46 | 5 1 15 | | DEC. . | 1 23 56 | 1 22 21 |
| | | | | | | 31 12 40 | 31 9 22 |
| 276. B.A. 20 18 16 | JAN. . | 3 21 30 | 3 19 51 | 279. E. 21 11 43 | ○ | 15 7 2 | 15 17 24 |
| | FEB. . | 2 10 14 | 2 14 46 | | JAN. . | 30 1 24 | 29 20 42 |
| | MAR. . | 2 22 58 | 3 8 32 | | FEB. . | 28 14 8 | 28 8 35 |
| | ○ | 17 17 20 | 17 15 0 | | MAR. . | 30 2 52 | 29 21 19 |
| | APRIL | 1 11 42 | 1 23 58 | | APRIL | 28 15 36 | 28 11 8 |
| | MAY . | 1 0 26 | 1 12 36 | | MAY . | 28 4 20 | 28 1 57 |
| | | 30 13 10 | 30 22 39 | | JUNE . | 26 17 4 | 26 17 21 |
| | JUNE . | 29 1 54 | 29 6 55 | | ○ | 11 11 26 | 11 5 38 |
| | JULY . | 28 14 38 | 28 14 29 | | JULY . | 26 5 48 | 26 8 39 |
| | AUG. . | 27 3 22 | 26 22 20 | | AUG. . | 24 18 32 | 24 23 20 |
| | SEPT. . | 25 16 6 | 25 7 21 | | SEPT. . | 23 7 16 | 23 13 5 |
| | OCT. . | 25 4 50 | 24 18 10 | | OCT. . | 22 20 0 | 23 1 52 |
| | NOV. . | 23 17 34 | 23 7 6 | | NOV. . | 21 8 44 | 21 13 50 |
| | DEC. . | 23 6 18 | 22 22 8 | | DEC. . | 20 21 23 | 21 1 3 |
| 277. G. 21 0 5 | JAN. . | 21 19 3 | 21 14 51 | 280. D.C. 20 17 32 | JAN. . | 19 10 12 | 19 11 37 |
| | ○ | 5 13 25 | 5 22 4 | | FEB. . | 17 22 56 | 17 21 36 |
| | FEB. . | 20 7 47 | 20 8 23 | | MAR. . | 18 11 41 | 18 7 27 |
| | MAR. . | 21 20 31 | 22 1 44 | | APRIL | 17 0 25 | 16 17 44 |
| | APRIL | 20 9 15 | 20 17 47 | | MAY . | 16 13 9 | 16 5 12 |
| | MAY . | 19 21 59 | 20 7 49 | | JUNE . | 15 1 53 | 14 18 23 |
| | JUNE . | 18 10 43 | 18 19 39 | | JULY . | 14 14 37 | 14 9 17 |
| | JULY . | 17 23 27 | 18 5 41 | | AUG. . | 13 3 21 | 13 1 23 |
| | AUG. . | 16 12 11 | 16 14 45 | | SEPT. . | 11 16 5 | 11 18 7 |
| | SEPT. . | 15 0 55 | 14 23 40 | | OCT. . | 11 4 49 | 11 10 24 |
| | OCT. . | 14 13 39 | 14 9 13 | | NOV. . | 9 17 33 | 10 1 35 |
| | NOV. . | 13 2 23 | 12 19 43 | | DEC. . | 9 6 17 | 9 15 13 |
| | DEC. . | 12 15 7 | 12 7 33 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| A.D. 281. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 284. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 7 19 2 | 8 3 21 | March. | JAN. . | 5 10 12 | 5 15 6 |
| <i>d. h. m.</i> | FEB. . | 6 7 46 | 6 13 47 | <i>d. h. m.</i> | FEB. . | 3 22 56 | 4 9 24 |
| 20 23 20 | MAR. . | 7 20 30 | 7 22 54 | 20 16 47 | MAR. . | 4 11 40 | 5 1 20 |
| | APRIL | 6 9 14 | 6 7 13 | | APRIL | 3 0 24 | 3 13 51 |
| | MAY . | 5 21 58 | 5 15 35 | | MAY . | 2 13 8 | 2 23 42 |
| | ○ | 20 16 20 | 21 3 8 | | JUNE . | 1 1 52 | 1 7 33 |
| | JUNE . | 4 10 42 | 4 0 58 | | { 30 14 36 | 30 14 27 | |
| | JULY . | 3 23 26 | 3 12 16 | | JULY . | 30 3 20 | 29 21 32 |
| | AUG. . | 2 12 10 | 2 2 4 | | AUG. . | 23 16 4 | 23 5 47 |
| | | 1 0 54 | 31 18 14 | | SEPT. . | 27 4 48 | 26 16 6 |
| | SEPT. . | 30 13 38 | 30 12 2 | | OCT. . | 26 17 32 | 26 5 1 |
| | OCT. . | 30 2 22 | 30 6 18 | | NOV. . | 25 6 16 | 24 20 39 |
| | ○ | 13 20 44 | 13 11 57 | | DEC. . | 24 19 0 | 24 14 26 |
| | NOV. . | 23 15 6 | 23 23 45 | | | | |
| | DEC. . | 23 3 50 | 23 15 19 | | | | |
| 282. | JAN. . | 26 16 34 | 27 4 29 | 285. | JAN. . | 23 7 44 | 23 9 13 |
| A. | FEB. . | 25 5 18 | 25 15 14 | D. | FEB. . | 21 20 28 | 22 3 36 |
| 21 5 9 | MAR. . | 26 18 2 | 26 23 58 | 20 22 36 | ○ | 8 14 50 | 8 14 32 |
| | APRIL | 25 6 46 | 25 7 27 | | MAR. . | 23 9 12 | 23 20 10 |
| | ○ | 10 1 8 | 10 7 31 | | APRIL | 21 21 56 | 22 10 10 |
| | MAY . | 24 19 30 | 24 14 34 | | MAY . | 21 10 40 | 21 21 27 |
| | JUNE . | 23 8 14 | 22 22 26 | | JUNE . | 19 23 24 | 20 6 35 |
| | JULY . | 22 20 58 | 22 8 9 | | JULY . | 19 12 8 | 19 14 30 |
| | AUG. . | 21 9 42 | 20 20 33 | | AUG. . | 18 0 52 | 17 22 15 |
| | SEPT. . | 19 22 26 | 19 11 56 | | ○ | 1 19 14 | 1 15 51 |
| | OCT. . | 19 11 10 | 19 5 51 | | SEPT. . | 16 13 36 | 16 6 47 |
| | ○ | 3 5 32 | 3 3 10 | | OCT. . | 16 2 20 | 15 16 47 |
| | NOV. . | 17 23 54 | 18 1 7 | | NOV. . | 14 15 4 | 14 4 41 |
| | DEC. . | 17 12 38 | 17 20 8 | | DEC. . | 14 3 48 | 13 18 37 |
| 283. | JAN. . | 16 1 23 | 16 13 24 | 286. | JAN. . | 12 16 33 | 12 10 23 |
| G. | FEB. . | 14 14 7 | 15 3 54 | C. | FEB. . | 11 5 17 | 11 3 23 |
| 21 10 58 | MAR. . | 16 2 51 | 16 15 25 | 21 4 25 | ○ | 25 23 39 | 26 7 3 |
| | APRIL | 14 15 35 | 15 0 24 | | MAR. . | 12 18 1 | 12 20 44 |
| | ○ | 29 9 57 | 29 8 5 | | APRIL | 11 6 45 | 11 13 22 |
| | MAY . | 14 4 19 | 14 7 41 | | MAY . | 10 19 29 | 11 4 25 |
| | JUNE . | 12 17 3 | 12 14 20 | | JUNE . | 9 8 13 | 9 17 24 |
| | JULY . | 12 5 47 | 11 21 25 | | JULY . | 8 20 57 | 9 4 26 |
| | AUG. . | 10 18 31 | 10 6 5 | | AUG. . | 7 9 41 | 7 14 6 |
| | SEPT. . | 9 7 15 | 8 17 13 | | ○ | 22 4 3 | 21 16 34 |
| | OCT. . | 8 19 59 | 8 7 24 | | SEPT. . | 5 22 25 | 5 23 13 |
| | ○ | 23 14 21 | 23 18 33 | | OCT. . | 5 11 9 | 5 8 36 |
| | NOV. . | 7 8 43 | 7 0 30 | | NOV. . | 3 23 53 | 3 18 47 |
| | DEC. . | 6 21 27 | 6 19 34 | | DEC. . | 3 12 37 | 3 6 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|--------------|------------------------------------|------------------------------------|--------------------------------------|--------------|------------------------------------|------------------------------------|
| A.D. 287. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 290. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 21 10 13 | JAN. . | { 2 1 21 31 14 5 | 1 18 20 31 7 47 | March. <i>d. h. m.</i> 21 3 40 | JAN. . | 28 5 16 | 28 13 4 |
| | FEB. . | ... | ... | | FEB. . | 26 18 0 | 26 22 37 |
| | MAR. . | { 2 2 50 31 15 34 | 1 22 21 31 13 45 | | MAR. . | 28 6 44 | 28 7 3 |
| | APRIL | 30 4 18 | 30 5 32 | | APRIL | 26 19 28 | 26 15 5 |
| | MAY . | 29 17 2 | 29 21 2 | | MAY . | 26 8 12 | 25 23 40 |
| | JUNE . | 28 5 46 | 28 11 34 | | ○ { 10 2 34 | 10 12 6 | |
| | JULY . | 27 18 30 | 28 0 48 | | JUNE . | { 24 20 56 | 24 9 49 |
| | AUG. . | 26 7 14 | 26 12 46 | | JULY . | 24 9 40 | 23 22 18 |
| | SEPT. . | 24 19 58 | 24 23 53 | | AUG. . | 22 22 24 | 22 13 24 |
| | OCT. . | 24 8 42 | 24 10 40 | | SEPT. . | 21 11 8 | 21 6 41 |
| | NOV. . | 22 21 26 | 22 21 25 | | OCT. . | 20 23 52 | 21 1 5 |
| | DEC. . | 22 10 10 | 22 8 17 | | NOV. . | 19 12 36 | 19 19 17 |
| | | | | | ○ { 4 6 58 | 3 22 31 | |
| | | | | | DEC. . | { 19 1 20 | 19 12 1 |
| 288. A.G. | JAN. . | 20 22 54 | 20 19 18 | 291. D. | JAN. . | 17 14 4 | 18 2 28 |
| 20 16 2 | FEB. . | 19 11 38 | 19 6 38 | 21 9 29 | FEB. . | 16 2 43 | 16 14 18 |
| | MAR. . | 20 0 22 | 19 18 35 | | MAR. . | 17 15 32 | 17 23 49 |
| | APRIL | 18 13 6 | 18 7 34 | | APRIL | 16 4 16 | 16 7 40 |
| | MAY . | 18 1 50 | 17 21 43 | | MAY . | 15 17 0 | 15 14 43 |
| | JUNE . | 16 14 34 | 16 12 50 | | JUNE . | 14 5 44 | 13 22 0 |
| | ○ { 1 8 56 | 1 5 55 | | | JULY . | 13 18 28 | 13 6 39 |
| | JULY . | { 16 3 18 | 16 4 21 | | AUG. . | 12 7 12 | 11 17 38 |
| | AUG. . | 14 16 2 | 14 19 39 | | SEPT. . | 10 19 56 | 10 7 36 |
| | SEPT. . | 13 4 46 | 13 10 11 | | OCT. . | 10 8 40 | 10 0 27 |
| | OCT. . | 12 17 30 | 12 23 43 | | NOV. . | 8 21 24 | 8 19 20 |
| | NOV. . | 11 6 14 | 11 12 19 | | DEC. . | 8 10 8 | 8 14 47 |
| | DEC. . | { 10 18 58 25 13 20 | 11 0 0 25 11 42 | | | | |
| | ○ { 25 13 20 | 25 11 42 | | | | | |
| 289. F. | JAN. . | 9 7 43 | 9 10 52 | 292. C.B. | JAN. . | 6 22 53 | 7 9 8 |
| 20 21 51 | FEB. . | 7 20 27 | 7 20 56 | 20 15 18 | FEB. . | 5 11 37 | 6 1 4 |
| | MAR. . | 9 9 11 | 9 6 32 | | MAR. . | 6 0 21 | 6 13 58 |
| | APRIL | 7 21 55 | 7 16 14 | | APRIL | { 4 13 5 | 5 0 2 |
| | MAY . | 7 10 39 | 7 2 48 | | ○ { 19 7 27 | 19 3 54 | |
| | JUNE . | { 5 23 23 20 17 45 | 5 14 55 20 22 55 | | MAY . | 4 1 49 | 4 7 58 |
| | ○ { 20 17 45 | 20 22 55 | | | JUNE . | 2 14 33 | 2 14 45 |
| | JULY . | 5 12 7 | 5 4 55 | | JULY . | { 2 3 17 | 1 21 30 |
| | AUG. . | 4 0 51 | 3 20 38 | | ○ { 31 16 1 | 31 5 17 | |
| | SEPT. . | 2 13 35 | 2 13 22 | | AUG. . | 30 4 45 | 29 15 10 |
| | OCT. . | { 2 2 19 31 15 3 | 2 6 13 31 22 17 | | SEPT. . | 28 17 29 | 28 3 52 |
| | NOV. . | 30 8 47 | 30 12 58 | | ○ { 13 11 51 | 13 17 1 | |
| | ○ { 14 22 9 | 14 13 33 | | | OCT. . | { 28 6 13 | 27 19 38 |
| | DEC. . | { 29 16 31 | 30 1 55 | | NOV. . | 26 18 57 | 26 13 53 |
| | | | | | DEC. . | 26 7 41 | 26 9 21 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| A.D. 293. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 296. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 24 20 25 | 25 4 33 | E.D. March. | JAN. . | 22 11 35 | 22 5 7 |
| <i>d. h. m.</i> | FEB. . | 23 9 9 | 23 21 27 | <i>d. h. m.</i> | ○ | { 6 5 57 | 6 19 24 |
| 20 21 6 | MAR. . | 24 21 53 | 25 11 36 | 20 14 33 | FEB. . | { 21 0 19 | 20 18 50 |
| | ○ | { 8 16 15 | 8 9 53 | | MAR. . | 21 13 3 | 21 9 32 |
| | APRIL | { 23 10 37 | 23 22 45 | | APRIL | 20 1 47 | 20 0 59 |
| | MAY . | 22 23 21 | 23 7 23 | | MAY . | 19 14 31 | 19 16 35 |
| | JUNE . | 21 12 5 | 21 14 45 | | JUNE . | 18 3 15 | 18 7 42 |
| | JULY . | 21 0 49 | 20 21 42 | | JULY . | 17 15 59 | { 17 21 47 |
| | AUG. . | 19 13 33 | 19 5 22 | | ○ | { 1 10 21 | 31 21 57 |
| | SEPT. . | 18 2 17 | 17 14 42 | | AUG. . | { 16 4 43 | 16 10 37 |
| | ○ | { 2 20 39 | 3 2 8 | | SEPT. . | 14 17 27 | 14 22 24 |
| | OCT. . | { 17 15 1 | 17 2 22 | | OCT. . | 14 6 11 | 14 9 33 |
| | NOV. . | 16 3 45 | 15 15 41 | | NOV. . | 12 18 55 | 12 20 27 |
| | DEC. . | 15 16 29 | 15 9 25 | | DEC. . | 12 7 39 | 12 7 19 |
| 294. | JAN. . | 14 5 14 | 14 3 43 | 297. | JAN. . | { 10 20 23 | 10 18 8 |
| G. | FEB. . | 12 17 58 | 12 22 18 | C. | ○ | { 25 14 45 | 26 1 19 |
| 21 2 55 | MAR. . | { 14 6 42 | 14 15 46 | | FEB. . | 9 9 7 | 9 5 4 |
| | ○ | { 29 1 4 | 28 22 53 | 20 20 22 | MAR. . | 10 21 52 | 10 16 24 |
| | APRIL | 12 19 26 | 13 7 2 | | APRIL | 9 10 36 | 9 4 32 |
| | MAY . | 12 8 10 | 12 19 38 | | MAY . | 8 23 20 | 8 17 51 |
| | JUNE . | 10 20 54 | 11 5 48 | | JUNE . | 7 12 4 | 7 8 25 |
| | JULY . | 10 9 33 | 10 14 21 | | JULY . | { 7 0 43 | 6 23 51 |
| | AUG. . | 8 22 22 | 8 22 14 | | ○ | { 21 19 10 | 21 13 13 |
| | SEPT. . | 7 11 6 | 7 6 27 | | AUG. . | 5 13 32 | 5 15 31 |
| | OCT. . | 6 23 50 | 6 15 50 | | SEPT. . | 4 2 16 | 4 6 44 |
| | NOV. . | 5 12 34 | 5 2 50 | | OCT. . | 3 15 0 | 3 21 7 |
| | DEC. . | 5 1 18 | 4 15 43 | | NOV. . | 2 3 44 | 2 10 25 |
| 295. | JAN. . | 3 14 3 | 3 6 29 | 298. | JAN. . | { 1 16 28 | 1 22 42 |
| F. | FEB. . | { 2 2 47 | 1 22 42 | B. | ○ | { 31 5 12 | 31 9 59 |
| 21 8 44 | ○ | { 16 21 9 | 17 6 29 | | JAN. . | 29 17 56 | 29 20 18 |
| | MAR. . | 3 15 31 | 3 15 44 | | FEB. . | 28 6 41 | 28 5 53 |
| | APRIL | 2 4 15 | 2 8 38 | 21 2 11 | MAR. . | 29 19 25 | 29 15 12 |
| | MAY . | { 1 16 59 | 2 0 28 | | APRIL | 28 8 9 | 28 0 59 |
| | ○ | { 31 5 43 | 31 14 32 | | MAY . | 27 20 53 | 27 12 4 |
| | JUNE . | 29 18 27 | 30 2 38 | | JUNE . | 26 9 37 | 26 1 1 |
| | JULY . | 29 7 11 | 29 13 5 | | JULY . | 25 22 21 | 25 15 57 |
| | AUG. . | 27 19 55 | 27 22 38 | | AUG. . | 24 11 5 | 24 8 25 |
| | SEPT. . | 26 8 39 | 26 8 2 | | SEPT. . | 22 23 49 | 23 1 34 |
| | OCT. . | 25 21 23 | 25 17 57 | | OCT. . | 22 12 33 | 22 18 24 |
| | NOV. . | 24 10 7 | 24 4 43 | | NOV. . | 21 1 17 | 21 10 5 |
| | DEC. . | 23 22 51 | 23 16 25 | | DEC. . | 20 14 1 | 21 0 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 299. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 302. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 19 2 45 | 19 12 2 | March. | JAN. . | 15 17 55 | 15 22 56 |
| <i>d. h. m.</i> | FEB. . | 17 15 29 | 17 22 14 | <i>d. h. m.</i> | FEB. . | 14 6 39 | 14 17 2 |
| 21 7 59 | MAR. . | 19 4 13 | 19 6 58 | 21 1 26 | MAR. . | 15 19 23 | 16 8 37 |
| | APRIL | 17 16 57 | 17 14 53 | | APRIL | 14 8 7 | 14 21 11 |
| | MAY . | 17 5 41 | 16 22 53 | | MAY . | 13 20 51 | 14 7 1 |
| | ○ | { 1 0 3 | 1 10 1 | | JUNE . | 12 9 35 | 12 14 54 |
| | JUNE . | { 15 18 23 | 15 8 0 | | JULY . | 11 22 19 | 11 21 58 |
| | JULY . | 15 7 9 | 14 19 12 | | AUG. . | 10 11 3 | 10 5 18 |
| | AUG. . | 13 19 53 | 13 9 2 | | SEPT. . | 8 23 47 | 8 13 50 |
| | SEPT. . | 12 8 37 | 12 1 25 | | OCT. . | 8 12 31 | 8 0 23 |
| | OCT. . | 11 21 21 | 11 19 35 | | NOV. . | 7 1 15 | 6 13 25 |
| | NOV. . | { 10 10 5 | 10 14 15 | | DEC. . | 6 13 59 | 6 4 57 |
| | ○ | { 25 4 27 | 24 20 46 | | | | |
| | DEC. . | 9 22 49 | 10 8 2 | | | | |
| 300. | | | | 303. | | | |
| G.F. | JAN. . | 8 11 34 | 8 23 46 | C. | JAN. . | 5 2 44 | 4 22 27 |
| 20 13 48 | FEB. . | 7 0 18 | 7 12 52 | 21 7 15 | FEB. . | 3 15 28 | 3 16 52 |
| | MAR. . | 7 13 2 | 7 23 23 | | MAR. . | { 5 4 12 | 5 10 52 |
| | APRIL | 6 1 46 | 6 7 49 | | ○ | { 19 22 34 | 19 22 35 |
| | MAY . | { 5 14 30 | 5 15 2 | | APRIL | 3 16 56 | 4 3 13 |
| | ○ | { 20 8 52 | 20 14 4 | | MAY . | 3 5 40 | 3 17 8 |
| | JUNE . | 4 3 14 | 3 21 57 | | JUNE . | 1 18 24 | 2 4 30 |
| | JULY . | 3 15 53 | 3 5 44 | | JULY . | { 1 7 8 | 1 13 52 |
| | AUG. . | { 2 4 42 | 1 15 27 | | ○ | { 30 19 52 | 30 22 6 |
| | SEPT. . | { 31 17 26 | 31 3 57 | | AUG. . | 29 8 36 | 29 6 16 |
| | OCT. . | 30 6 10 | 29 19 31 | | ○ | { 13 2 58 | 12 23 2 |
| | NOV. . | 29 18 54 | 29 18 38 | | SEPT. . | { 27 21 20 | 27 15 11 |
| | ○ | { 13 13 16 | 13 12 5 | | OCT. . | 27 10 4 | 27 1 27 |
| | NOV. . | { 28 7 38 | 28 9 5 | | NOV. . | 25 22 48 | 25 13 24 |
| | DEC. . | 27 20 22 | 28 4 12 | | DEC. . | 25 11 32 | 25 3 8 |
| 301. | | | | 304. | | | |
| E. | JAN. . | 26 9 7 | 26 21 28 | B.A. | JAN. . | 24 0 16 | 23 18 27 |
| 20 19 37 | FEB. . | 24 21 51 | 25 11 51 | | FEB. . | 22 13 0 | 22 10 53 |
| | MAR. . | 26 10 35 | 26 23 11 | | ○ | { 8 7 22 | 8 15 14 |
| | APRIL | 24 23 19 | 25 7 59 | 20 13 4 | MAR. . | { 23 1 44 | 23 3 43 |
| | ○ | { 9 17 41 | 9 14 41 | | APRIL | 21 14 28 | 21 20 3 |
| | MAY . | { 24 12 3 | 24 15 10 | | MAY . | 21 8 12 | 21 11 3 |
| | JUNE . | 23 0 47 | 22 21 47 | | JUNE . | 19 15 56 | 20 0 13 |
| | JULY . | 22 13 31 | 22 4 58 | | JULY . | 19 4 40 | 19 11 33 |
| | AUG. . | 21 2 15 | 20 13 47 | | AUG. . | 17 17 24 | { 17 21 46 |
| | SEPT. . | 19 14 59 | 19 1 6 | | ○ | { 1 11 46 | { 31 23 48 |
| | OCT. . | 19 3 43 | 18 15 25 | | SEPT. . | { 16 6 8 | 16 7 24 |
| | ○ | { 2 22 5 | 3 3 14 | | OCT. . | 15 13 52 | 15 17 19 |
| | NOV. . | { 17 16 27 | 17 8 32 | | NOV. . | 14 7 36 | |
| | DEC. . | 17 5 11 | 17 3 34 | | DEC. . | 13 20 20 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 305. G. March. d. h. m. 20 18 52 | | d. h. m. | d. h. m. | A.D. 308. D.C. March. d. h. m. 20 12 19 | | d. h. m. | d. h. m. |
| | JAN. . | 12 9 4 | 12 2 54 | | JAN. . | 10 0 15 | 10 10 37 |
| | FEB. . | 10 21 49 | 10 15 52 | | FEB. . | 8 12 59 | 8 21 36 |
| | MAR. . | 12 10 33 | 12 5 48 | | MAR. . | 9 1 43 | 9 6 50 |
| | APRIL | 10 23 17 | 10 20 38 | | APRIL | 7 14 27 | 7 14 52 |
| | MAY . | 10 12 1 | 10 12 3 | | MAY . | 7 8 11 | 6 22 32 |
| | JUNE . | 9 0 45 | 9 3 30 | | JUNE . | 5 15 55 | 5 6 49 |
| | JULY . | 8 13 29 | 8 18 16 | | ○ | 20 10 17 | 20 19 5 |
| | AUG. . | 7 2 13 | 7 7 56 | | JULY . | 5 4 39 | 4 16 48 |
| | ○ | 21 20 35 | 21 6 58 | | AUG. . | 3 17 23 | 3 5 17 |
| | SEPT. . | 5 14 57 | 5 20 30 | | SEPT. . | 2 6 7 | 1 20 32 |
| | OCT. . | 5 3 41 | 5 8 12 | | ○ | 1 18 51 | 1 14 5 |
| | NOV. . | 3 16 25 | 3 19 25 | | OCT. . | 81 7 35 | 81 8 52 |
| | DEC. . | 3 5 9 | 3 6 22 | | NOV. . | 29 20 19 | 30 3 23 |
| | | | | | ○ | 14 14 41 | 14 7 16 |
| | | | | | DEC. . | 29 9 3 | 29 20 23 |
| 306. F. | JAN. . | 1 17 54 | 1 17 11 | 309. B. | JAN. . | 27 21 48 | 28 10 49 |
| 21 0 41 | FEB. . | 31 6 33 | 31 3 52 | 20 18 8 | FEB. . | 26 10 32 | 26 22 29 |
| | ... | ... | ... | | MAR. . | 27 23 16 | 28 7 46 |
| | MAR. . | 1 19 22 | 1 14 40 | | APRIL | 26 12 0 | 26 15 21 |
| | ... | ... | ... | | MAY . | 26 0 44 | 25 22 10 |
| | APRIL | 29 20 50 | 29 14 28 | | JUNE . | 24 13 28 | 24 5 20 |
| | MAY . | 29 9 34 | 29 4 17 | | JULY . | 24 2 12 | 23 13 59 |
| | JUNE . | 27 22 18 | 27 19 19 | | AUG. . | 22 14 56 | 22 1 3 |
| | ○ | 12 16 40 | 12 13 28 | | SEPT. . | 21 3 40 | 20 15 10 |
| | JULY . | 27 11 2 | 27 11 3 | | OCT. . | 20 16 24 | 20 8 12 |
| | AUG. . | 25 23 46 | 26 2 48 | | NOV. . | 19 5 8 | 19 3 16 |
| | SEPT. . | 24 12 30 | 24 17 57 | | DEC. . | 18 17 52 | 18 22 48 |
| | OCT. . | 24 1 14 | 24 8 5 | | | | |
| | NOV. . | 22 13 58 | 22 21 5 | | | | |
| | DEC. . | 22 2 42 | 22 8 54 | | | | |
| | ○ | 5 21 4 | 5 19 38 | 310. A. | JAN. . | 17 6 36 | 17 17 9 |
| 307. E. | JAN. . | 20 15 26 | 20 19 37 | 20 23 57 | FEB. . | 15 19 20 | 16 8 59 |
| 21 6 30 | FEB. . | 19 4 10 | 19 5 21 | | MAR. . | 17 8 4 | 17 21 43 |
| | MAR. . | 20 16 54 | 20 14 29 | | APRIL | 15 20 48 | 16 7 38 |
| | APRIL | 19 5 38 | 18 23 41 | | ○ | 30 15 10 | 30 10 40 |
| | MAY . | 18 18 22 | 18 9 48 | | MAY . | 15 9 32 | 15 15 26 |
| | JUNE . | 17 7 6 | 16 21 38 | | JUNE . | 13 22 13 | 13 22 10 |
| | ○ | 2 1 28 | 2 6 17 | | JULY . | 13 11 0 | 13 4 59 |
| | JULY . | 16 19 50 | 16 11 35 | | AUG. . | 11 23 44 | 11 12 57 |
| | AUG. . | 15 8 34 | 15 3 28 | | SEPT. . | 10 12 23 | 9 23 2 |
| | SEPT. . | 13 21 18 | 13 20 36 | | OCT. . | 10 1 12 | 9 11 53 |
| | OCT. . | 13 10 2 | 13 13 59 | | ○ | 24 19 34 | 25 1 30 |
| | NOV. . | 11 22 46 | 12 6 34 | | NOV. . | 8 13 56 | 8 3 43 |
| | DEC. . | 11 11 30 | 11 21 35 | | DEC. . | 8 2 40 | 7 21 54 |
| | ○ | 26 5 52 | 25 21 52 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|------------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 311. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 314. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>a.</i> | JAN. . | 6 15 24 | 6 17 13 | <i>c.</i> | JAN. . | 3 6 35 | 3 1 10 |
| March. | FEB. . | 5 4 8 | 5 12 2 | | FEB. . | { 1 19 19 | 1 13 25 |
| <i>d. h. m.</i> | MAR. . | 6 16 53 | 7 4 54 | March. | ○ | { 16 13 41 | 17 3 30 |
| 21 5 45 | APRIL | { 5 5 37 | 5 18 56 | <i>d. h. m.</i> | MAR. . | 3 8 3 | 3 2 34 |
| | ○ | { 19 23 59 | 19 17 12 | 20 23 11 | APRIL | 1 20 47 | 1 16 39 |
| | MAY . | 4 18 21 | 5 6 2 | | MAY . | { 1 9 31 | 1 7 37 |
| | JUNE . | 3 7 5 | 3 14 47 | | { 30 22 15 | 30 23 3 | |
| | JULY . | 2 19 49 | 2 22 12 | | JUNE . | 29 10 59 | 29 14 16 |
| | AUG. . | { 1 8 33 | 1 5 24 | | JULY . | 28 23 43 | 29 4 43 |
| | { 30 21 17 | 30 13 23 | | ○ | { 12 18 5 | 12 5 33 | |
| | SEPT. . | 29 10 1 | 28 23 0 | AUG. . | { 27 12 27 | 27 18 6 | |
| | ○ | { 14 4 23 | 14 10 5 | SEPT. . | 26 1 11 | 26 6 30 | |
| | OCT. . | { 28 22 45 | 28 10 49 | OCT. . | 25 13 55 | 25 18 11 | |
| | NOV. . | 27 11 29 | 27 1 6 | NOV. . | 24 2 39 | 24 5 22 | |
| | DEC. . | 27 0 13 | 26 17 35 | DEC. . | 23 15 23 | 23 16 16 | |
| 312. | JAN. . | 25 12 58 | 25 11 31 | 315. | JAN. . | 22 4 7 | 22 2 52 |
| <i>P.E.</i> | FEB. . | 24 1 42 | 24 5 40 | <i>B.</i> | ○ | { 5 22 29 | 6 9 5 |
| 20 11 31 | MAR. . | 24 14 26 | 24 22 49 | | FEB. . | { 20 16 51 | 20 13 21 |
| | ○ | { 8 8 48 | 8 6 33 | 21 5 0 | MAR. . | 22 5 36 | 22 0 6 |
| | APRIL | { 23 8 10 | 23 13 56 | | APRIL | 20 18 20 | 20 11 39 |
| | MAY . | 22 15 54 | 23 2 35 | | MAY . | 20 7 4 | 20 0 33 |
| | JUNE . | 21 4 38 | 21 12 53 | | JUNE . | 18 19 43 | 18 14 56 |
| | JULY . | 20 17 22 | 20 21 48 | | JULY . | 18 8 32 | 18 6 26 |
| | AUG. . | 19 6 6 | 19 6 6 | ○ | { 2 2 54 | 1 20 55 | |
| | SEPT. . | 17 18 50 | 17 14 45 | AUG. . | { 16 21 16 | 16 22 27 | |
| | OCT. . | 17 7 34 | 17 0 27 | SEPT. . | 15 10 0 | 15 14 15 | |
| | NOV. . | 15 20 13 | 15 11 36 | OCT. . | 14 22 44 | 15 5 14 | |
| | DEC. . | 15 9 2 | 15 0 22 | NOV. . | 13 11 28 | 13 19 2 | |
| | | | | DEC. . | 13 0 12 | 13 7 35 | |
| 313. | JAN. . | 13 21 46 | 13 14 44 | 316. | JAN. . | 11 12 56 | 11 18 49 |
| <i>D.</i> | FEB. . | { 12 10 30 | 12 6 25 | <i>A.G.</i> | FEB. . | 10 1 40 | 10 4 52 |
| 20 17 23 | ○ | { 27 4 52 | 27 14 45 | 20 10 49 | MAR. . | 10 14 24 | 10 14 1 |
| | MAR. . | 18 23 14 | 18 22 54 | | APRIL | 9 3 8 | 8 22 50 |
| | APRIL | 12 11 53 | 12 15 24 | | MAY . | 8 15 52 | 8 8 9 |
| | MAY . | 12 0 42 | 12 7 3 | | JUNE . | 7 4 36 | 6 18 54 |
| | JUNE . | 10 18 26 | 10 21 13 | | JULY . | 6 17 20 | 6 7 42 |
| | JULY . | 10 2 10 | 10 9 33 | | AUG. . | 5 6 4 | 4 22 42 |
| | AUG. . | 8 14 54 | 8 20 33 | | SEPT. . | 3 18 43 | 3 15 29 |
| | SEPT. . | 7 8 33 | 7 6 37 | | OCT. . | 3 7 32 | 3 9 7 |
| | OCT. . | 6 16 22 | 6 16 32 | | NOV. . | 1 20 16 | 2 2 29 |
| | NOV. . | 5 5 6 | 5 2 46 | | DEC. . | { 1 9 0 | 1 18 33 |
| | DEC. . | 4 17 50 | 4 13 37 | | { 30 21 44 | 31 8 41 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 317. F. March. <i>d. h. m.</i> 20 16 38 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 320. C.B. March. <i>d. h. m.</i> 20 10 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 29 10 29 | 29 20 38 | | JAN. . | 27 1 39 | 27 6 39 |
| | FEB. . | 27 23 13 | 28 6 33 | | FEB. . | 25 14 23 | 26 0 31 |
| | MAR. . | 29 11 57 | 29 14 55 | | MAR. . | 26 3 7 | 26 15 55 |
| | APRIL | 28 0 41 | 27 22 28 | | APRIL | 24 15 51 | 25 4 25 |
| | MAY . | 27 13 25 | 27 6 10 | | MAY . | 24 4 35 | 24 14 15 |
| | ○ | { 11 7 47 | 11 16 52 | | JUNE . | 22 17 19 | 22 22 17 |
| | JUNE . | { 26 2 9 | 25 15 6 | | JULY . | 22 6 3 | 22 5 35 |
| | JULY . | 25 14 53 | 25 2 14 | | AUG. . | 20 18 47 | 20 13 13 |
| | AUG. . | 24 3 37 | 23 16 10 | | SEPT. . | 19 7 31 | 18 22 4 |
| | SEPT. . | 22 16 21 | 22 8 47 | | OCT. . | 18 20 15 | 18 8 51 |
| | OCT. . | 22 5 5 | 22 3 18 | | NOV. . | 17 8 59 | 16 21 55 |
| | NOV. . | 20 17 49 | 20 22 19 | | DEC. . | 16 21 43 | 16 13 17 |
| | ○ | { 5 12 11 | 5 5 38 | | | | |
| | DEC. . | { 20 6 33 | 20 16 19 | | | | |
| 318. E. 20 22 27 | JAN. . | 18 19 17 | 19 8 5 | 321. A. 20 15 53 | JAN. . | 15 10 27 | 15 6 24 |
| | FEB. . | 17 8 1 | 17 21 4 | | FEB. . | 13 23 11 | 14 0 22 |
| | MAR. . | 18 20 45 | 19 7 21 | | MAR. . | { 15 11 55 | 15 17 59 |
| | APRIL | 17 9 29 | 17 15 33 | | ○ | { 30 6 17 | 30 6 28 |
| | MAY . | { 16 22 13 | 16 22 30 | | APRIL | 14 0 39 | 14 10 7 |
| | ○ | { 31 16 35 | 31 20 33 | | MAY . | 13 13 23 | 13 23 59 |
| | JUNE . | 15 10 57 | 15 5 19 | | JUNE . | 12 2 7 | 12 11 30 |
| | JULY . | 14 23 41 | 14 13 5 | | JULY . | 11 14 51 | 11 21 10 |
| | AUG. . | 13 12 25 | 12 22 52 | | AUG. . | 10 3 35 | 10 5 49 |
| | SEPT. . | 12 1 9 | 11 11 30 | | SEPT. . | { 8 16 19 | 8 14 24 |
| | OCT. . | 11 13 53 | 11 3 13 | | ○ | { 23 10 41 | 23 6 22 |
| | NOV. . | { 10 2 37 | 9 21 30 | | OCT. . | 8 5 3 | 7 23 41 |
| | ○ | { 24 20 59 | 24 21 0 | | NOV. . | 6 17 47 | 6 10 12 |
| | DEC. . | 9 15 21 | 9 17 4 | | DEC. . | 6 6 31 | 5 22 9 |
| 319. D. 21 4 16 | JAN. . | 8 4 5 | 8 12 11 | 322. G. 20 21 42 | JAN. . | 4 19 15 | 4 11 35 |
| | FEB. . | 6 16 50 | 7 5 22 | | FEB. . | 3 7 59 | 3 2 25 |
| | MAR. . | 8 5 34 | 8 19 37 | | MAR. . | { 4 20 44 | 4 18 17 |
| | APRIL | 6 18 18 | 7 6 43 | | ○ | { 19 15 6 | 19 23 17 |
| | MAY . | { 6 7 2 | 6 15 27 | | APRIL | 3 9 28 | 3 10 38 |
| | ○ | { 21 1 24 | 20 21 15 | | MAY . | 2 22 12 | 3 2 41 |
| | JUNE . | 4 19 46 | 4 22 35 | | JUNE . | { 1 10 56 | 1 17 38 |
| | JULY . | 4 8 30 | 4 5 16 | | ○ | { 30 23 40 | { 1 7 8 |
| | AUG. . | 2 21 14 | { 2 12 36 | | JULY . | 30 12 24 | { 30 18 54 |
| | SEPT. . | { 1 9 58 | { 31 21 37 | | AUG. . | 29 1 8 | 29 5 34 |
| | ○ | { 30 22 42 | 30 9 7 | | ○ | { 12 19 30 | 12 7 13 |
| | OCT. . | 30 11 26 | 29 23 32 | | SEPT. . | { 27 13 52 | 27 15 44 |
| | ○ | { 14 5 48 | 14 11 57 | | OCT. . | 27 2 36 | 27 1 57 |
| | NOV. . | { 29 0 10 | 28 16 38 | | NOV. . | 25 15 20 | 25 12 36 |
| | DEC. . | 28 12 54 | 28 11 30 | | DEC. . | 25 4 4 | 24 23 45 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 323. F. March. <i>d. h. m.</i> 21 8 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 326. B. March. <i>d. h. m.</i> 20 20 57 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 16 49 | 23 11 27 | | ○ | { 5 13 36 | 5 6 10 |
| | FEB. . | 22 5 33 | 21 23 51 | | JAN. . | { 20 7 59 | 20 19 14 |
| | MAR. . | 23 18 17 | 23 13 9 | | FEB. . | 18 20 43 | 19 6 1 |
| | APRIL . | 22 7 1 | 22 3 27 | | MAR. . | 20 9 27 | 20 14 55 |
| | MAY . | 21 19 45 | 21 18 34 | | APRIL . | 18 22 11 | 18 22 35 |
| | JUNE . | 20 8 29 | 20 9 57 | | MAY . | 18 10 55 | 18 5 56 |
| | JULY . | 19 21 13 | 20 1 0 | | JUNE . | 16 23 39 | 16 14 0 |
| | AUG. . | 18 9 57 | 18 15 10 | | ○ | { 1 18 1 | 2 2 5 |
| | ○ | { 2 4 19 | 1 14 42 | | JULY . | { 16 12 23 | 15 23 54 |
| | SEPT. . | { 16 22 41 | 17 4 21 | | AUG. . | 15 1 7 | 14 12 25 |
| | OCT. . | 16 11 25 | 16 16 38 | | SEPT. . | 13 13 51 | 13 3 50 |
| | NOV. . | 15 0 9 | 15 4 14 | | OCT. . | 13 2 35 | 12 21 42 |
| | DEC. . | 14 12 53 | 14 15 21 | | NOV. . | 11 15 19 | 11 16 47 |
| | | | | | DEC. . | { 11 4 3 | 11 11 35 |
| 324. E.D. 20 9 20 | JAN. . | 13 1 37 | 13 2 1 | 327. A. 21 2 46 | ○ | { 25 22 25 | 25 16 4 |
| | FEB. . | 11 14 21 | 11 12 20 | | JAN. . | 9 16 47 | 10 4 39 |
| | MAR. . | 12 3 5 | 11 22 36 | | FEB. . | 8 5 31 | 8 19 2 |
| | APRIL . | 10 15 49 | 10 9 23 | | MAR. . | 9 18 15 | 10 6 31 |
| | MAY . | 10 4 33 | 9 21 19 | | APRIL . | 8 6 59 | 8 15 31 |
| | JUNE . | 8 17 17 | 8 10 49 | | MAY . | 7 19 43 | 7 22 53 |
| | JULY . | { 8 6 1 | 8 1 48 | | JUNE . | 6 8 27 | 6 5 35 |
| | ○ | { 23 0 23 | 22 21 4 | | JULY . | 5 21 11 | 5 12 44 |
| | AUG. . | 6 18 45 | 6 17 49 | | AUG. . | 4 9 55 | 3 21 25 |
| | SEPT. . | 5 7 29 | 5 10 3 | | SEPT. . | 2 22 39 | 2 8 37 |
| | OCT. . | 4 20 13 | 5 1 48 | | OCT. . | 2 11 23 | { 1 22 53 |
| | NOV. . | 3 8 57 | 3 16 30 | | NOV. . | { 1 0 7 | { 31 16 4 |
| | DEC. . | 2 21 41 | 3 5 51 | | DEC. . | { 30 12 51 | 30 11 13 |
| | | | | | | 30 1 35 | 30 6 46 |
| 325. C. 20 15 9 | JAN. ○ | { 1 10 25 | 1 17 46 | 328. G.F. 20 8 35 | JAN. . | 28 14 20 | 29 1 3 |
| | | { 16 4 47 | 16 3 28 | | FEB. . | 27 3 4 | 27 16 44 |
| | | { 30 23 9 | 31 4 17 | | MAR. . | 27 15 48 | 28 5 21 |
| | FEB. . | ... | ... | | APRIL . | 26 4 32 | 26 15 7 |
| | MAR. . | { 1 11 54 | 1 13 39 | | ○ | { 10 22 54 | 10 17 22 |
| | APRIL . | { 31 0 38 | 30 22 20 | | MAY . | { 25 17 16 | 25 22 52 |
| | MAY . | 29 13 22 | 29 7 4 | | JUNE . | 24 6 0 | 24 5 39 |
| | JUNE . | 27 14 50 | 27 4 24 | | JULY . | 23 18 44 | 23 12 36 |
| | ○ | { 12 9 12 | 12 13 44 | | AUG. . | 22 7 28 | 21 20 46 |
| | JULY . | { 27 3 34 | 26 18 19 | | SEPT. . | 20 20 12 | 20 7 3 |
| | AUG. . | 25 16 18 | 25 10 25 | | OCT. . | 20 8 56 | 19 20 4 |
| | SEPT. . | 24 5 2 | 24 3 59 | | ○ | { 4 3 18 | 4 10 5 |
| | OCT. . | 23 17 46 | 23 21 52 | | NOV. . | { 18 21 40 | 18 11 54 |
| | NOV. . | 22 6 30 | 22 14 54 | | DEC. . | 18 10 24 | 18 5 57 |
| | DEC. . | 21 19 14 | 22 6 11 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 329. E. March. <i>d. h. m.</i> 20 14 24 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 332. B.A. March. <i>d. h. m.</i> 20 7 50 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 28 9 | 17 1 2 | | JAN. . | 14 14 18 | 14 9 52 |
| | FEB. . | 15 11 53 | 15 19 34 | | FEB. . | { 13 8 2 | 12 21 33 |
| | MAR. . | 17 0 37 | 17 12 13 | | ○ | { 27 21 24 | 28 11 25 |
| | APRIL | { 15 13 21 | 16 2 7 | | MAR. . | 13 15 46 | 13 10 9 |
| | ○ | { 30 7 43 | 30 0 25 | | APRIL | 12 4 30 | 11 23 39 |
| | MAY . | 15 2 5 | 15 13 12 | | MAY . | 11 17 14 | 11 14 13 |
| | JUNE . | 13 14 49 | 13 22 4 | | JUNE . | 10 5 58 | 10 5 28 |
| | JULY . | 13 3 33 | 13 5 43 | | JULY . | 9 18 42 | 9 20 50 |
| | AUG. . | 11 16 17 | 11 13 14 | | AUG. . | { 8 7 26 | 8 11 43 |
| | SEPT. . | 10 5 1 | 9 21 33 | | ○ | { 23 1 48 | 22 13 15 |
| | OCT. . | { 9 17 45 | 9 7 25 | | SEPT. . | 6 20 10 | 7 1 41 |
| | ○ | { 24 12 7 | 24 18 7 | | OCT. . | 6 8 54 | 6 14 41 |
| | NOV. . | 8 6 29 | 7 19 23 | | NOV. . | 4 21 38 | 5 2 51 |
| | DEC. . | 7 19 13 | 7 9 34 | | DEC. . | 4 10 22 | 4 14 19 |
| 330. D. 20 20 13 | JAN. . | 6 7 57 | 6 1 44 | 333. G. 20 13 39 | JAN. . | 2 23 7 | 3 1 12 |
| | FEB. . | 4 20 41 | 4 19 12 | | FEB. . | { 1 11 51 | 1 11 30 |
| | MAR. . | 6 9 25 | 6 12 54 | | ○ | { 16 6 13 | 16 16 42 |
| | APRIL | { 4 22 9 | 5 5 43 | | MAR. . | 3 0 35 | 2 21 30 |
| | ○ | { 19 16 31 | 19 14 17 | | APRIL | 1 13 19 | { 1 7 40 |
| | MAY . | 4 10 53 | 4 20 44 | | ○ | { 1 2 3 | { 30 18 42 |
| | JUNE . | 2 23 37 | 3 9 28 | | MAY . | { 30 14 47 | 30 7 12 |
| | JULY . | 2 12 21 | 2 20 7 | | JUNE . | 29 3 31 | 28 21 25 |
| | AUG. . | { 1 1 5 | 1 5 20 | | JULY . | 28 16 15 | 28 13 8 |
| | ○ | { 30 13 49 | 30 14 5 | | ○ | { 12 10 37 | 12 4 43 |
| | SEPT. . | 29 2 33 | 28 23 8 | | AUG. . | { 27 4 59 | 27 5 29 |
| | OCT. . | 28 15 17 | 28 9 9 | | SEPT. . | 25 17 43 | 25 21 52 |
| | NOV. . | 27 4 1 | 26 20 25 | | OCT. . | 25 6 27 | 25 13 25 |
| | DEC. . | 26 16 45 | 26 9 1 | | NOV. . | 23 19 11 | 24 3 41 |
| | | | | | DEC. . | 23 7 55 | 23 16 25 |
| 331. C. 21 2 2 | JAN. . | 25 5 30 | 24 22 57 | 334. F. 20 19 23 | JAN. . | 21 20 40 | 22 3 35 |
| | FEB. . | 23 18 14 | 23 14 3 | | FEB. . | 20 9 24 | 20 13 20 |
| | ○ | { 10 12 36 | 10 22 51 | | MAR. . | 21 22 8 | 21 22 1 |
| | MAR. . | { 25 6 58 | 25 5 53 | | APRIL | 20 10 52 | 20 6 24 |
| | APRIL | 23 19 42 | 23 22 4 | | MAY . | 19 23 36 | 19 15 20 |
| | MAY . | 23 8 26 | 23 13 36 | | JUNE . | 18 12 20 | 18 1 46 |
| | JUNE . | 21 21 10 | 22 3 54 | | JULY . | 18 1 4 | 17 14 28 |
| | JULY . | 21 9 54 | 21 16 41 | | AUG. . | 16 18 48 | 16 5 36 |
| | AUG. . | 19 22 38 | 20 4 8 | | SEPT. . | 15 2 32 | 14 22 44 |
| | SEPT. . | 18 11 22 | 18 14 45 | | OCT. . | 14 15 16 | 14 16 49 |
| | OCT. . | 18 0 6 | 18 1 8 | | NOV. . | 13 4 0 | 13 10 37 |
| | NOV. . | 16 12 50 | 16 11 41 | | DEC. . | 12 16 44 | 13 3 2 |
| | DEC. . | 16 1 34 | 15 22 35 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 335. E. March. d. h. m. 21 1 17 | | d. h. m. | d. h. m. | A.D. 338. A. March. d. h. m. 20 18 43 | | d. h. m. | d. h. m. |
| | JAN. . | 11 5 28 | 11 17 16 | | JAN. . | 7 20 38 | 7 19 24 |
| | FEB. . | 9 18 12 | 10 5 5 | | FEB. . | 6 9 22 | 6 14 14 |
| | MAR. . | 11 6 56 | 11 14 42 | | MAR. . | 7 22 6 | 8 7 51 |
| | APRIL . | 9 19 40 | 9 22 48 | | APRIL . | 6 10 50 | 6 23 4 |
| | MAY . | 9 8 24 | 9 5 58 | | MAY . | 5 23 34 | 6 11 30 |
| | JUNE . | { 7 21 8 | 7 13 26 | | JUNE . | 4 12 18 | 4 21 26 |
| | ○ | { 22 15 30 | 22 23 41 | | JULY . | 4 1 2 | 4 5 41 |
| | JULY . | 7 9 52 | 6 22 15 | | AUG. . | 2 13 46 | { 2 13 17 |
| | AUG. . | 5 22 36 | 5 9 22 | | SEPT. . | { 1 2 30 | { 31 21 14 |
| | SEPT. . | 4 11 20 | 3 23 25 | | ○ | { 30 15 14 | 30 6 26 |
| | OCT. . | 4 0 4 | 3 16 18 | | OCT. . | 30 8 58 | 29 17 25 |
| | NOV. . | 2 12 48 | 2 11 5 | | NOV. . | 28 16 42 | 28 6 28 |
| | | { 2 1 32 | 2 6 20 | | DEC. . | 28 5 26 | 27 21 35 |
| | DEC. ○ | { 16 19 54 | 16 14 31 | | | | |
| | | { 31 14 16 | ... | | | | |
| 336. D.C 20 7 6 | JAN. . | { ... | 1 0 30 | 339. G. 21 0 32 | JAN. . | 26 18 11 | 26 14 17 |
| | | { 30 8 1 | 30 16 18 | | FEB. . | 25 6 55 | 25 7 46 |
| | FEB. . | 28 15 45 | 29 5 8 | | MAR. . | 26 19 39 | 27 0 59 |
| | MAR. . | 29 4 20 | 29 15 12 | | ○ | { 10 14 1 | 10 14 16 |
| | APRIL . | 27 17 13 | 27 23 10 | | APRIL . | { 25 8 23 | 25 16 52 |
| | MAY . | 27 5 57 | 27 5 59 | | MAY . | 24 21 7 | 25 6 45 |
| | ○ | { 11 0 19 | 11 3 1 | | JUNE . | 23 9 51 | 23 18 31 |
| | JUNE . | { 25 18 41 | 25 12 45 | | JULY . | 22 22 35 | 23 4 32 |
| | JULY . | 25 7 25 | 24 20 31 | | AUG. . | 21 11 19 | 21 13 38 |
| | AUG. . | 23 20 9 | 23 6 28 | | SEPT. . | 20 0 3 | 19 22 41 |
| | SEPT. . | 22 8 53 | 21 19 16 | | ○ | { 4 13 25 | 4 13 50 |
| | OCT. . | 21 21 37 | 21 11 6 | | OCT. . | { 19 12 47 | 19 8 22 |
| | NOV. . | 20 10 21 | 20 5 28 | | NOV. . | 18 1 31 | 17 19 3 |
| | ○ | { 5 4 43 | 5 6 0 | | DEC. . | 17 14 15 | 17 6 56 |
| | DEC. . | { 19 23 5 | 20 1 1 | 340. F.E. 20 6 21 | JAN. . | 16 2 59 | 15 20 1 |
| 337. H. 20 12 54 | JAN. . | 18 11 49 | 18 20 5 | | FEB. . | 14 15 43 | 14 10 18 |
| | FEB. . | 17 0 38 | 17 18 7 | | MAR. . | { 15 4 23 | 15 1 34 |
| | MAR. . | 18 13 18 | 19 3 13 | | ○ | { 29 22 50 | 30 7 11 |
| | APRIL . | 17 2 2 | 17 14 17 | | APRIL . | 18 17 12 | 18 17 25 |
| | MAY . | { 16 14 46 | 16 22 52 | | MAY . | 18 5 56 | 18 9 12 |
| | ○ | { 31 9 8 | 31 3 47 | | JUNE . | 11 18 40 | 12 0 12 |
| | JUNE . | 15 8 33 | 15 6 1 | | JULY . | 11 7 24 | 11 13 55 |
| | JULY . | 14 16 14 | 14 12 50 | | AUG. . | 9 20 8 | 10 2 15 |
| | AUG. . | 13 4 53 | 12 20 23 | | SEPT. . | { 8 8 52 | 8 13 29 |
| | SEPT. . | 11 17 42 | 11 5 38 | | ○ | { 23 3 14 | 22 14 49 |
| | OCT. . | 11 6 26 | 10 17 19 | | OCT. . | 7 21 36 | 8 0 11 |
| | NOV. . | { 9 19 10 | 9 7 47 | | NOV. . | 6 10 20 | 6 10 48 |
| | ○ | { 24 13 32 | 24 20 44 | | DEC. . | 5 23 4 | 5 21 35 |
| | DEC. . | 9 7 54 | 9 0 48 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|-------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 341. D. March. d. h. m. 20 12 10 | | d. h. m. | d. h. m. | A.D. 344. A.G. | | d. h. m. | d. h. m. |
| | JAN. . | 4 11 48 | 4 8 36 | | JAN. ○ | { 2 2 58 16 21 20 31 15 42 | 2 14 41 16 14 26 ... |
| | FEB. . | 3 0 32 | 2 19 52 | | FEB. . | ... | 1 8 41 |
| | MAR. . | 4 13 16 | 4 7 42 | March. d. h. m. 20 5 36 | MAR. . | { 1 4 26 30 17 10 | 1 14 14 30 22 50 |
| | APRIL | 3 2 0 | 2 20 23 | | APRIL | 29 5 54 | 29 6 11 |
| | MAY . | 2 14 44 | 2 10 11 | | MAY . | 28 18 38 | 28 18 18 |
| | JUNE . | { 1 3 23 30 16 12 | 1 1 1 30 16 26 | | JUNE . | 27 7 22 | 26 21 14 |
| | JULY . | 30 4 56 | 30 7 47 | | ○ | { 12 1 44 26 20 6 | 12 9 5 26 7 5 |
| | AUG. . | 28 17 40 | 28 22 31 | | JULY . | 25 8 50 | 24 19 42 |
| | ○ | { 12 12 2 27 6 24 | 11 22 34 27 12 18 | | AUG. . | 23 21 34 | 23 11 17 |
| | SEPT. . | 26 19 8 | 27 1 8 | | SEPT. . | 23 10 18 | 23 5 23 |
| | OCT. . | 25 7 52 | 25 13 7 | | OCT. . | 21 23 2 | 22 0 44 |
| | NOV. . | 24 20 36 | 25 0 18 | | NOV. . | 21 11 46 | 21 19 42 |
| | DEC. . | | | | DEC. . | | |
| 342. C. 20 17 59 | JAN. . | 23 9 21 | 23 10 47 | | ○ | { 5 6 8 20 0 31 | 5 0 47 20 12 48 |
| | FEB. . | 21 22 5 | 21 20 40 | 345. F. 20 11 25 | JAN. . | 18 13 15 | 19 3 6 |
| | MAR. . | 23 10 49 | 23 6 24 | | FEB. . | 20 1 59 | 20 14 24 |
| | APRIL | 21 23 33 | 21 16 39 | | MAR. . | 18 14 43 | 18 23 12 |
| | MAY . | 21 12 17 | 21 4 9 | | APRIL | 18 3 27 | 18 6 24 |
| | JUNE . | 20 1 1 | 19 17 23 | | MAY . | 16 16 11 | 16 13 1 |
| | JULY . | 19 13 45 | 19 8 24 | | JUNE . | 16 4 55 | 15 20 12 |
| | ○ | { 3 8 7 18 2 29 | 3 4 48 18 0 43 | | JULY . | 14 17 39 | 14 5 0 |
| | AUG. . | 16 15 13 | 16 17 28 | | AUG. . | 13 6 23 | 12 16 22 |
| | SEPT. . | 16 8 57 | 16 9 46 | | SEPT. . | 12 19 7 | 12 6 47 |
| | OCT. . | 14 16 41 | 15 0 59 | | OCT. . | 11 7 51 | 11 0 2 |
| | NOV. . | 14 5 25 | 14 14 38 | | NOV. . | 10 20 35 | 10 19 11 |
| | DEC. . | | | | DEC. . | | |
| 343. B. 20 23 47 | JAN. . | { 12 18 9 27 12 31 | 13 2 34 27 11 15 | 346. E. 20 17 14 | JAN. . | 9 9 19 | 9 14 40 |
| | ○ | 11 6 53 | 11 12 50 | | FEB. . | 7 22 3 | 8 8 47 |
| | FEB. . | 12 19 38 | 12 21 49 | | MAR. . | 9 10 47 | 10 0 20 |
| | MAR. . | 11 8 22 | 11 6 4 | | APRIL | 7 23 31 | 8 12 48 |
| | APRIL | 10 21 6 | 10 14 23 | | MAY . | { 7 12 15 22 6 37 | 7 22 28 22 0 1 |
| | MAY . | 9 9 50 | 8 23 49 | | ○ | 6 0 59 | 6 6 14 |
| | JUNE . | { 8 22 34 23 16 56 | 8 11 15 23 21 12 | | JUNE . | 5 13 43 | 5 13 9 |
| | JULY . | 7 11 18 | 7 1 13 | | AUG. . | 4 2 27 | 3 20 18 |
| | ○ | 6 0 2 | 5 17 33 | | SEPT. . | 2 15 11 | 2 4 44 |
| | AUG. . | 5 12 46 | 5 11 30 | | OCT. . | { 2 3 55 31 16 39 | 1 15 15 31 4 22 |
| | SEPT. . | 4 1 30 | 4 5 49 | | ○ | { 15 11 1 30 5 23 | 15 18 42 29 20 8 |
| | OCT. . | 3 14 14 | 3 23 14 | | NOV. . | 29 18 7 | 29 13 58 |
| | NOV. . | | | | DEC. . | | |
| | DEC. . | | | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 347. D. March. d. h. m. 20 23 3 | | d. h. m. | d. h. m. | A.D. 350. G. | | d. h. m. | d. h. m. |
| | JAN. . | 23 6 52 | 28 8 45 | | JAN. . | 24 22 2 | 24 18 29 |
| | FEB. . | 26 19 33 | 27 2 57 | | FEB. . | 23 10 46 | 23 5 44 |
| | MAR. . | 23 8 20 | 28 19 21 | March. d. h. m. 20 16 29 | ○ | { 10 5 8 | 10 19 10 |
| | APRIL | 23 21 4 | 27 9 9 | | MAR. . | { 24 23 30 | 24 17 39 |
| | ○ | { 11 15 26 | 11 7 36 | | APRIL | 23 12 14 | 23 6 33 |
| | MAY . | { 26 9 48 | 26 20 18 | | MAY . | 23 0 58 | 22 20 45 |
| | JUNE . | 24 22 32 | 25 5 21 | | JUNE . | 21 13 42 | 21 11 54 |
| | JULY . | 24 11 16 | 24 13 16 | | JULY . | 21 2 26 | 21 3 29 |
| | AUG. . | 23 0 0 | 22 21 8 | | AUG. . | 19 15 10 | 19 18 50 |
| | SEPT. . | 21 12 44 | 21 5 49 | | ○ | { 3 9 32 | 2 21 8 |
| | OCT. . | 21 1 28 | 20 15 58 | | SEPT. . | { 18 3 54 | 18 9 24 |
| | ○ | { 4 19 50 | 5 2 18 | | OCT. . | 17 16 38 | 17 23 0 |
| | NOV. . | { 19 14 12 | 19 4 1 | | NOV. . | 16 5 22 | 16 11 36 |
| | DEC. . | 19 2 56 | 18 18 2 | | DEC. . | 15 18 6 | 15 23 16 |
| 348. C.B. 20 4 52 | JAN. . | 17 15 41 | 17 9 50 | 351. F. | JAN. . | 14 6 51 | 14 10 2 |
| | FEB. . | 16 4 25 | 16 2 47 | | FEB. . | { 12 19 35 | 12 20 1 |
| | MAR. . | 16 17 9 | 16 20 1 | 20 22 18 | ○ | { 27 13 57 | 28 0 11 |
| | APRIL | { 15 5 53 | 15 12 31 | | MAR. . | 14 8 19 | 14 5 31 |
| | ○ | { 30 0 15 | 29 21 51 | | APRIL | 12 21 3 | 12 15 9 |
| | MAY . | 14 18 37 | 15 3 26 | | MAY . | 12 9 47 | 12 1 42 |
| | JUNE . | 18 7 21 | 13 16 19 | | JUNE . | 10 22 31 | 10 13 53 |
| | JULY . | 12 20 5 | 13 3 18 | | JULY . | 10 11 15 | 10 4 0 |
| | AUG. . | 11 8 49 | 11 12 59 | | AUG. . | { 8 23 59 | 8 19 50 |
| | SEPT. . | 9 21 33 | 9 22 12 | | ○ | { 23 18 21 | 23 12 39 |
| | OCT. . | 9 10 17 | 9 7 43 | | SEPT. . | 7 12 43 | 7 12 41 |
| | NOV. . | 7 23 1 | 7 18 0 | | OCT. . | 7 1 27 | 7 5 36 |
| | DEC. . | 7 11 43 | 7 5 17 | | NOV. . | 5 14 11 | 5 21 42 |
| 349. A. 10 10 40 | JAN. . | 6 0 29 | 5 17 38 | 352. E.D. | JAN. . | 3 15 39 | 4 1 1 |
| | FEB. . | 4 13 13 | 4 7 4 | 20 4 7 | FEB. . | 2 4 23 | 2 12 11 |
| | MAR. . | 6 1 57 | 5 21 34 | | MAR. . | 2 17 7 | 2 21 36 |
| | APRIL | 4 14 41 | 4 12 55 | | APRIL | { 1 5 51 | 1 5 54 |
| | MAY . | 4 3 25 | 4 4 33 | | | { 30 18 35 | 30 13 52 |
| | JUNE . | 2 16 9 | 2 20 4 | | MAY . | 30 7 19 | 29 22 28 |
| | JULY . | { 2 4 53 | 2 10 34 | | JUNE . | 28 20 3 | 28 8 42 |
| | | { 31 17 37 | 31 23 43 | | JULY . | 28 8 47 | 27 21 21 |
| | AUG. . | 30 6 21 | 30 11 43 | | ○ | { 12 3 9 | 12 5 15 |
| | SEPT. . | 28 19 5 | 28 23 0 | | AUG. . | { 26 21 31 | 26 12 33 |
| | OCT. . | 28 7 49 | 28 9 51 | | SEPT. . | 25 10 15 | 25 6 4 |
| | NOV. . | 26 20 33 | 26 20 33 | | OCT. . | 24 22 59 | 25 0 35 |
| | DEC. . | 26 9 17 | 26 7 30 | | NOV. . | 23 11 43 | 23 13 47 |
| | | | | | DEC. . | 23 0 27 | 23 11 27 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 353. C. March. d. h. m. 20 9 56 | | d. h. m. | d. h. m. | A.D. 356. G.F. March. d. h. m. 20 3 22 | | d. h. m. | d. h. m. |
| | JAN. . | 21 13 12 | 22 1 43 | | JAN. . | 19 4 22 | 19 3 15 |
| | FEB. . | 20 1 56 | 20 13 23 | | FEB. . | 17 17 6 | 17 21 43 |
| | MAR. . | 21 14 40 | 21 22 44 | | MAR. . | 18 5 50 | 18 15 1 |
| | APRIL | 20 3 24 | 20 6 27 | | APRIL | 16 18 34 | 17 6 5 |
| | MAY . | 19 16 8 | 19 13 26 | | MAY . | 16 7 18 | 16 18 32 |
| | JUNE . | 18 4 52 | 17 20 45 | | JUNE . | 14 20 2 | 15 4 36 |
| | ○ | { 2 23 14 | 3 6 32 | | JULY . | 14 8 46 | 14 13 7 |
| | JULY . | { 17 17 36 | 17 5 30 | | AUG. . | 12 21 30 | 12 21 4 |
| | AUG. . | 16 6 20 | 15 16 41 | | SEPT. . | 11 10 14 | 11 5 26 |
| | SEPT. . | 14 19 4 | 14 6 52 | | OCT. . | 10 22 58 | 10 14 57 |
| | OCT. . | 14 7 43 | 13 23 56 | | NOV. . | 9 11 42 | 9 2 6 |
| | NOV. . | 12 20 32 | 12 18 56 | | DEC. . | 9 0 26 | 8 15 6 |
| | DEC. . | { 12 9 16 | 12 14 23 | | | | |
| | ○ | { 27 3 38 | 26 23 22 | | | | |
| 354. B. 20 15 45 | JAN. . | 10 22 1 | 11 8 38 | 357. E. 20 9 11 | JAN. . | 7 13 11 | 7 5 53 |
| | FEB. . | 9 10 45 | 10 0 20 | | FEB. . | 6 1 55 | 5 22 5 |
| | MAR. . | 10 23 29 | 11 13 2 | | MAR. . | 7 14 39 | 7 15 3 |
| | APRIL | 9 12 13 | 9 22 54 | | APRIL | { 6 3 23 | 6 7 50 |
| | MAY . | 9 0 57 | 9 6 42 | | ○ | { 20 21 45 | 20 21 58 |
| | JUNE . | { 7 13 41 | 7 13 26 | | MAY . | 5 16 7 | 5 23 32 |
| | ○ | { 22 8 3 | 22 9 29 | | JUNE . | 4 4 51 | 4 13 30 |
| | JULY . | 7 2 25 | 6 20 12 | | JULY . | 3 17 35 | 4 1 32 |
| | AUG. . | 5 15 9 | 5 4 9 | | AUG. . | { 2 6 19 | 2 11 59 |
| | SEPT. . | 4 3 53 | 3 14 13 | | SEPT. . | { 31 19 3 | 31 21 35 |
| | OCT. . | 3 16 37 | 3 3 9 | | ○ | { 15 2 9 | 14 21 26 |
| | NOV. . | 2 5 21 | 1 19 7 | | OCT. . | { 29 20 31 | 29 17 9 |
| | DEC. ○ | { 1 18 5 | 1 13 28 | | NOV. . | 28 9 15 | 28 3 58 |
| | | { 16 12 27 | 16 14 59 | | DEC. . | 27 21 59 | 27 15 42 |
| | | 31 6 49 | 31 8 58 | | | | |
| 355. A. 20 21 33 | JAN. . | 29 19 33 | 30 3 52 | 358. D. 20 15 0 | JAN. . | 26 10 43 | 26 4 23 |
| | FEB. . | 23 8 17 | 28 20 43 | | FEB. . | 24 23 27 | 24 18 4 |
| | MAR. . | 29 21 1 | 30 10 39 | | MAR. . | 26 12 11 | 26 8 43 |
| | APRIL | 28 9 45 | 28 21 37 | | ○ | { 10 6 33 | 10 14 57 |
| | MAY . | 27 22 29 | 28 6 13 | | APRIL | { 25 0 55 | 25 0 6 |
| | ○ | { 11 16 51 | 11 10 19 | | MAY . | 24 13 39 | 24 15 39 |
| | JUNE . | { 26 11 13 | 26 13 27 | | JUNE . | 23 2 23 | 23 6 45 |
| | JULY . | 25 23 57 | 25 20 27 | | JULY . | 22 15 7 | 22 20 49 |
| | AUG. . | 24 12 41 | 24 4 16 | | AUG. . | 21 3 51 | 21 9 40 |
| | SEPT. . | 23 1 25 | 22 13 47 | | SEPT. . | 19 16 35 | 19 21 31 |
| | OCT. . | 22 14 9 | 22 1 39 | | ○ | { 4 10 57 | 3 22 34 |
| | NOV. . | 21 2 53 | 20 16 8 | | OCT. . | { 19 5 19 | 19 8 44 |
| | ○ | { 5 21 15 | 6 5 30 | | NOV. . | 17 18 3 | 17 19 41 |
| | DEC. . | { 20 15 37 | 20 8 57 | | DEC. . | 17 6 47 | 17 6 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 359. c. March. d. h. m. 20 20 49 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 362. F. March. d. h. m. 20 14 15 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 19 32 | 15 17 22 | | JAN. . | 12 10 42 | 12 23 7 |
| | FEB. . | 14 8 16 | 14 4 13 | | ○ | 27 5 4 | 26 22 37 |
| | MAR. . | 15 21 0 | 15 15 27 | | FEB. . | 10 23 26 | 11 12 2 |
| | ○ | 30 15 22 | 31 4 51 | | MAR. . | 12 12 10 | 12 22 20 |
| | APRIL | 14 9 44 | 14 3 33 | | APRIL | 11 0 54 | 11 6 33 |
| | MAY . | 13 22 28 | 13 16 52 | | MAY . | 10 13 38 | 10 18 44 |
| | JUNE . | 12 11 12 | 12 7 29 | | JUNE . | 9 2 22 | 8 20 40 |
| | JULY . | 11 23 56 | 11 22 58 | | JULY . | 8 15 6 | 8 4 31 |
| | AUG. . | 10 12 40 | 10 14 41 | | ○ | 23 9 28 | 23 16 11 |
| | SEPT. . | 9 1 24 | 9 5 58 | | AUG. . | 7 3 50 | 6 14 25 |
| | ○ | 23 19 46 | 23 6 37 | | SEPT. . | 5 16 34 | 5 3 8 |
| | OCT. . | 8 14 8 | 8 20 23 | | OCT. . | 5 5 18 | 4 18 55 |
| | NOV. . | 7 2 52 | 7 9 44 | | NOV. . | 3 18 2 | 3 13 12 |
| | DEC. . | 6 15 36 | 6 21 59 | | DEC. . | 3 6 46 | 3 8 43 |
| 360. B.A. 20 2 38 | JAN. . | 5 4 20 | 5 9 11 | 363. E. 20 20 4 | JAN. ○ | 1 19 30 | 2 3 46 |
| | FEB. . | 3 17 4 | 3 19 25 | | ○ | 16 13 52 | 16 9 28 |
| | MAR. . | 4 5 43 | 4 4 52 | | FEB. . | 31 8 14 | 31 20 49 |
| | APRIL | 2 18 32 | 2 14 5 | | ... | ... | ... |
| | MAY . | 2 7 16 | 1 23 50 | | MAR. . | 1 20 53 | 2 10 59 |
| | JUNE . | 31 20 0 | 31 10 53 | | ○ | 31 9 42 | 31 22 6 |
| | JULY . | 30 8 44 | 30 0 1 | | APRIL | 29 22 26 | 30 6 45 |
| | AUG. . | 29 21 23 | 29 15 5 | | MAY . | 29 11 10 | 29 13 51 |
| | SEPT. . | 28 10 12 | 28 7 42 | | JUNE . | 27 23 54 | 27 20 28 |
| | OCT. . | 26 22 56 | 27 0 56 | | JULY . | 27 12 38 | 27 3 45 |
| | NOV. . | 26 11 40 | 26 17 49 | | AUG. . | 26 1 22 | 25 12 44 |
| | DEC. . | 25 0 24 | 25 9 23 | | SEPT. . | 24 14 6 | 24 0 16 |
| | | 24 13 8 | 24 23 20 | | OCT. . | 24 2 50 | 23 14 47 |
| | | | | | NOV. . | 22 15 34 | 22 8 5 |
| | | | | | DEC. . | 22 4 18 | 22 3 9 |
| 361. G. 20 8 26 | JAN. . | 23 1 53 | 23 11 14 | 364. D.C. 20 1 53 | JAN. . | 20 17 3 | 20 22 23 |
| | ○ | 6 20 15 | 6 18 55 | | FEB. . | 19 5 47 | 19 16 23 |
| | FEB. . | 21 14 37 | 21 21 16 | | MAR. . | 19 18 31 | 20 7 46 |
| | MAR. . | 23 3 21 | 23 5 51 | | APRIL | 18 7 15 | 18 20 7 |
| | APRIL | 21 16 5 | 21 13 41 | | MAY . | 17 19 59 | 18 5 43 |
| | MAY . | 21 4 49 | 20 21 39 | | ○ | 1 14 21 | 1 6 41 |
| | JUNE . | 19 17 33 | 19 6 50 | | JUNE . | 16 8 43 | 16 13 37 |
| | JULY . | 19 6 17 | 18 18 11 | | JULY . | 15 21 27 | 15 20 42 |
| | ○ | 3 0 39 | 3 4 46 | | AUG. . | 14 10 11 | 14 4 8 |
| | AUG. . | 17 19 1 | 17 8 12 | | SEPT. . | 12 22 55 | 12 12 52 |
| | SEPT. . | 16 7 45 | 16 0 47 | | OCT. . | 12 11 39 | 11 23 35 |
| | OCT. . | 15 20 29 | 15 19 5 | | NOV. . | 11 0 23 | 10 12 47 |
| | NOV. . | 14 9 13 | 14 13 49 | | ○ | 25 18 45 | 26 3 21 |
| | DEC. . | 13 21 57 | 14 7 32 | | DEC. . | 10 13 7 | 10 4 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 365. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 368. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 9 1 52 | 8 21 59 | March. | JAN. . | 6 17 2 | 6 16 21 |
| <i>d. h. m.</i> | FEB. . | 7 14 36 | 7 16 20 | <i>d. h. m.</i> | FEB. . | 5 5 46 | 5 3 1 |
| 20 7 42 | MAR. . | 9 3 20 | 9 10 11 | 20 1 8 | MAR. . | { 5 18 30 | 5 13 44 |
| | APRIL | 7 16 4 | 8 2 21 | | ○ | { 20 12 52 | 21 2 45 |
| | MAY . | { 7. 4 48 | 7 16 6 | | APRIL | 4 7 14 | 4 1 2 |
| | ○ | { 21 23 10 | 21 14 44 | | MAY . | 3 19 58 | 3 13 28 |
| | JUNE . | 5 17 32 | 6 3 21 | | JUNE . | 2 8 42 | 2 3 19 |
| | JULY . | 5 6 16 | 5 12 39 | | JULY . | { 1 21 26 | 1 18 24 |
| | AUG. . | 3 19 0 | 3 20 57 | | | { 31 10 10 | 31 10 13 |
| | SEPT. . | 2 7 44 | 2 5 12 | | AUG. . | 29 22 54 | 30 2 1 |
| | | | | | ○ | { 13 17 16 | 13 5 10 |
| | OCT. . | { 1 20 28 | 1 14 15 | | SEPT. . | { 28 11 38 | 28 17 14 |
| | | { 31 9 12 | 31 0 41 | | OCT. . | 28 0 22 | 28 7 24 |
| | ○ | { 15 3 34 | 15 10 23 | | NOV. . | 26 13 6 | 26 20 24 |
| | NOV. . | { 29 21 56 | 29 12 43 | | DEC. . | 26 1 50 | 26 8 10 |
| | DEC. . | 29 10 40 | 29 2 31 | | | | |
| 366. | JAN. . | 27 23 24 | 27 17 50 | 369. | JAN. . | 24 14 31 | 24 13 47 |
| A. | FEB. . | 26 12 8 | 26 10 13 | D. | FEB. . | 23 3 18 | 23 4 23 |
| 20 13 31 | MAR. . | 28 0 52 | 28 2 58 | | ○ | { 9 21 40 | 10 7 28 |
| | APRIL | 26 13 36 | 26 19 11 | 20 6 57 | MAR. . | { 24 16 2 | 24 13 24 |
| | ○ | { 11 7 58 | 11 5 19 | | APRIL | 23 4 46 | 22 22 33 |
| | MAY . | { 26 2 20 | 26 10 4 | | MAY . | 22 17 30 | 22 8 41 |
| | JUNE . | 24 15 4 | 24 23 9 | | JUNE . | 21 6 14 | 20 20 35 |
| | JULY . | 24 3 43 | 24 10 32 | | JULY . | 20 18 58 | 20 10 40 |
| | AUG. . | 22 16 32 | 22 20 43 | | AUG. . | 19 7 42 | 19 2 42 |
| | SEPT. . | 21 5 16 | 21 6 26 | | ○ | { 3 2 4 | 2 20 43 |
| | OCT. . | 20 18 0 | 20 16 23 | | SEPT. . | { 17 20 26 | 17 19 57 |
| | ○ | { 4 12 22 | 4 10 52 | | OCT. . | 17 9 10 | 17 13 24 |
| | NOV. . | { 19 6 44 | 19 2 53 | | NOV. . | 15 21 54 | 16 6 1 |
| | DEC. . | 18 19 23 | 18 14 8 | | DEC. . | 15 10 38 | 15 20 57 |
| 367. | JAN. . | 17 8 12 | 17 2 10 | 370. | JAN. . | 13 23 23 | 14 9 52 |
| G. | FEB. . | 15 20 56 | 15 15 5 | C. | FEB. . | 12 12 7 | 12 20 42 |
| 20 19 19 | MAR. . | 17 9 41 | 17 4 53 | 20 12 46 | MAR. . | 14 0 51 | 14 5 45 |
| | APRIL | 15 22 25 | 15 19 46 | | APRIL | 12 13 35 | 12 13 40 |
| | MAY . | 15 11 9 | 15 11 8 | | MAY . | 12 2 19 | 11 21 17 |
| | JUNE . | 13 23 53 | 14 2 33 | | JUNE . | 10 15 3 | 10 5 37 |
| | JULY . | 13 12 37 | 13 17 18 | | JULY . | 10 3 47 | 9 15 43 |
| | AUG. . | 12 1 21 | 12 7 0 | | AUG. . | { 8 16 31 | 8 4 22 |
| | SEPT. . | 10 14 5 | 10 19 36 | | ○ | { 23 10 53 | 23 13 6 |
| | OCT. . | 10 2 49 | 10 7 22 | | SEPT. . | 7 5 15 | 6 19 49 |
| | NOV. . | 8 15 33 | 8 18 55 | | OCT. . | 6 17 59 | 6 13 34 |
| | DEC. . | 8 4 17 | 8 5 37 | | NOV. . | 5 6 43 | 5 8 27 |
| | | | | | DEC. . | 4 19 27 | 5 2 59 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|-----------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 371. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 374. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | E. | | | |
| March. | JAN. . | 8 8 11 | 8 19 48 | March. | JAN. . | 29 12 5 | 29 10 59 |
| <i>d. h. m.</i> | FEB. . | 1 20 56 | 2 10 4 | <i>d. h. m.</i> | FEB. . | 28 0 49 | 28 5 2 |
| 20 18 35 | MAR. . | 8 9 40 | 8 21 33 | 20 12 1 | MAR. . | 29 13 33 | 29 22 0 |
| | APRIL | 1 22 24 | 2 6 38 | | APRIL | 28 2 17 | 28 12 58 |
| | MAY . | { 1 11 8 | 1 14 5 | | MAY . | 27 15 1 | 28 1 28 |
| | | { 30 23 52 | 30 20 52 | | JUNE . | 26 8 45 | 26 11 46 |
| | JUNE . | 29 12 36 | 29 4 5 | | JULY . | 25 16 29 | 25 20 37 |
| | ○ | { 14 6 58 | 14 13 25 | | AUG. . | 24 5 13 | 24 4 58 |
| | JULY . | { 29 1 20 | 28 12 52 | | SEPT. . | 22 17 57 | 22 13 45 |
| | AUG. . | 27 14 4 | 27 0 9 | | OCT. . | 22 6 41 | 21 23 35 |
| | SEPT. . | 26 2 48 | 25 14 29 | | NOV. . | 20 19 25 | 20 10 51 |
| | OCT. . | 25 15 32 | 25 7 43 | | DEC. . | 20 8 9 | 19 23 43 |
| | NOV. . | 24 4 16 | 21 2 53 | | | | |
| | DEC. . | 23 17 0 | 23 22 24 | 375. | JAN. . | 18 20 54 | 18 14 7 |
| | ○ | { 7 11 22 | 7 8 12 | D. | FEB. . | 17 9 33 | 17 5 46 |
| 372. | JAN. . | { 22 5 44 | 22 16 36 | 20 17 50 | MAR. . | 18 22 22 | 18 22 9 |
| A.G. | FEB. . | 20 18 23 | 21 8 13 | | APRIL | 17 11 6 | 17 14 33 |
| 20 0 24 | MAR. . | 21 7 12 | 21 20 45 | | ○ | { 2 5 23 | 2 5 33 |
| | APRIL | 19 19 56 | 20 6 28 | | MAY . | { 16 23 50 | 17 6 7 |
| | MAY . | 19 8 40 | 19 14 9 | | JUNE . | 15 12 34 | 15 20 11 |
| | JUNE . | 17 21 24 | 17 20 52 | | JULY . | 15 1 18 | 15 8 34 |
| | ○ | { 2 15 46 | 2 15 58 | | AUG. . | 13 14 2 | 13 19 31 |
| | JULY . | { 17 10 8 | 17 3 44 | | SEPT. . | 12 2 46 | 12 5 39 |
| | AUG. . | 15 22 52 | 15 11 51 | | OCT. . | { 11 15 30 | 11 15 39 |
| | SEPT. . | 14 11 36 | 13 22 7 | | ○ | { 26 9 52 | 26 5 9 |
| | OCT. . | 14 0 20 | 13 11 13 | | NOV. . | 10 4 14 | 10 1 53 |
| | NOV. . | 12 13 4 | 12 3 13 | | DEC. . | 9 16 58 | 9 12 53 |
| | DEC. . | { 12 1 48 | 11 21 30 | | | | |
| | ○ | { 26 20 10 | 26 23 55 | 376. | JAN. . | 8 5 43 | 8 0 25 |
| 373. | JAN. . | 10 14 33 | 10 16 49 | C.B. | FEB. . | 6 18 27 | 6 12 39 |
| F. | FEB. . | 9 3 17 | 9 11 30 | 19 23 39 | MAR. . | 7 7 11 | 7 1 44 |
| 20 6 12 | MAR. . | 10 16 1 | 11 4 8 | | APRIL | { 5 19 55 | 5 15 46 |
| | APRIL | 9 4 45 | 9 17 57 | | ○ | { 20 14 17 | 20 22 36 |
| | MAY . | 8 17 20 | 9 4 52 | | MAY . | 5 8 39 | 5 6 43 |
| | JUNE . | { 7 6 13 | 7 13 31 | | JUNE . | 3 21 23 | 3 22 7 |
| | ○ | { 22 0 35 | 21 16 54 | | JULY . | 3 10 7 | 3 13 19 |
| | JULY . | 6 18 57 | 6 20 56 | | AUG. . | { 1 22 51 | 2 3 47 |
| | AUG. . | 5 7 41 | 5 4 12 | | | { 31 11 35 | 31 17 13 |
| | SEPT. . | 3 20 25 | 3 12 19 | | SEPT. . | 30 0 19 | 30 5 40 |
| | OCT. . | 3 9 9 | 2 22 7 | | ○ | { 14 13 41 | 14 6 29 |
| | NOV. . | 1 21 53 | 1 10 7 | | OCT. . | { 29 13 3 | 29 17 23 |
| | | { 1 10 37 | 1 0 33 | | NOV. . | 23 1 47 | 23 4 38 |
| | DEC. ○ | { 16 4 59 | 16 14 17 | | DEC. . | 27 14 31 | 27 15 30 |
| | | { 30 23 21 | 30 17 6 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 377. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 380. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | E.D. | | | |
| March. | JAN. . | 26 3 15 | 26 2 2 | March. | JAN. . | 23 18 25 | 24 7 25 |
| <i>d. h. m.</i> | FEB. . | 24 15 59 | 24 12 25 | <i>d. h. m.</i> | ○ | { 7 12 47 | 7 6 42 |
| 20 5 28 | MAR. . | 26 4 43 | 25 23 4 | 19 22 54 | FEB. . | { 22 7 9 | 22 20 11 |
| | ○ | { 9 23 5 | 10 12 16 | | MAR. . | 22 19 53 | 23 6 17 |
| | APRIL | { 24 17 27 | 24 10 37 | | APRIL | 21 8 37 | 21 14 18 |
| | MAY . | 24 6 11 | 23 23 32 | | MAY . | 20 21 21 | 20 21 12 |
| | JUNE . | 22 18 55 | 22 13 57 | | JUNE . | 19 10 5 | 19 4 2 |
| | JULY . | 22 7 39 | 22 5 33 | | JULY . | 18 22 49 | 18 11 55 |
| | AUG. . | 20 20 23 | 20 21 39 | | ○ | { 2 17 11 | 2 23 18 |
| | SEPT. . | 19 9 7 | 19 13 31 | | AUG. . | { 17 11 33 | 16 21 52 |
| | ○ | { 4 3 29 | 3 14 49 | | SEPT. . | 16 0 17 | 15 10 44 |
| | OCT. . | { 18 21 51 | 19 4 32 | | OCT. . | 15 13 1 | 15 2 41 |
| | NOV. . | 17 10 35 | 17 18 21 | | NOV. . | 14 1 45 | 13 21 6 |
| | DEC. . | 16 23 19 | 17 6 51 | | DEC. . | 13 14 29 | 13 16 41 |
| 378. | JAN. . | 15 12 4 | 15 18 1 | 381. | JAN. . | { 12 3 14 | 12 11 44 |
| G. | FEB. . | 14 0 48 | 14 3 56 | C. | ○ | { 26 21 36 | 26 18 5 |
| 20 11 17 | MAR. . | 15 13 32 | 15 12 57 | 20 4 43 | FEB. . | 10 15 58 | 11 4 42 |
| | APRIL | 14 2 16 | 13 21 41 | | MAR. . | 12 4 42 | 12 18 48 |
| | MAY . | 13 15 0 | 13 7 1 | | APRIL | 10 17 26 | 11 5 41 |
| | JUNE . | 12 3 44 | 11 17 48 | | MAY . | 10 6 10 | 10 14 13 |
| | JULY . | 11 16 28 | 11 6 43 | | JUNE . | 8 18 54 | 8 21 17 |
| | AUG. . | 10 5 12 | 9 21 54 | | JULY . | 8 7 38 | 8 3 59 |
| | SEPT. . | 8 17 56 | 8 14 49 | | AUG. . | 6 20 22 | 6 11 26 |
| | OCT. . | 8 6 40 | 8 8 33 | | SEPT. . | 5 9 6 | 4 20 33 |
| | NOV. . | 6 19 24 | 7 1 57 | | OCT. . | 4 21 50 | 4 8 21 |
| | DEC. . | 6 8 8 | 6 17 53 | | NOV. . | 3 10 34 | 2 22 53 |
| | | | | | DEC. . | 2 23 18 | 2 16 12 |
| 379. | JAN. . | 4 20 53 | 5 8 1 | 382. | JAN. . | { 1 12 2 | 1 11 5 |
| F. | FEB. . | { 3 9 37 | 3 19 47 | B. | ○ | { 31 0 46 | 31 6 8 |
| 20 17 5 | ○ | { 18 3 59 | 18 2 26 | 20 10 32 | FEB. . | ... | ... |
| | MAR. . | 4 22 21 | 5 5 32 | | MAR. . | { 1 13 31 | 1 23 50 |
| | APRIL | 3 11 5 | 3 13 46 | | ○ | { 31 2 15 | 31 15 2 |
| | MAY . | 2 23 49 | 2 21 13 | | APRIL | 29 14 59 | 30 3 19 |
| | JUNE . | 1 12 33 | { 1 4 56 | | MAY . | 29 3 43 | 29 13 2 |
| | JULY . | { 1 1 17 | { 30 13 57 | | ○ | { 12 22 5 | 12 13 22 |
| | ○ | { 30 14 1 | 30 1 14 | | JUNE . | { 27 16 27 | 27 21 1 |
| | AUG. . | { 14 8 23 | 14 12 26 | | JULY . | 27 5 11 | 27 4 21 |
| | SEPT. . | 27 15 29 | 27 8 11 | | AUG. . | 25 17 55 | 25 12 6 |
| | OCT. . | 27 4 13 | 27 2 50 | | SEPT. . | 24 6 39 | 23 21 8 |
| | NOV. . | 25 16 57 | 25 21 53 | | OCT. . | 23 19 23 | 23 8 5 |
| | DEC. . | 25 5 41 | 25 15 43 | | NOV. . | 22 8 7 | 21 21 19 |
| | | | | | ○ | { 7 2 29 | 7 12 2 |
| | | | | | DEC. . | { 21 20 51 | 21 12 46 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 383. A. March. d. h. m. 20 16 21 | | d. h. m. | d. h. m. | A.D. 386. D. March. d. h. m. 20 9 47 | | d. h. m. | d. h. m. |
| | JAN. . | 20 9 35 | 20 5 54 | | JAN. . | 17 0 45 | 17 1 12 |
| | FEB. . | 18 22 19 | 18 23 47 | | FEB. . | 15 13 29 | 15 11 24 |
| | MAR. . | 20 11 8 | 20 17 15 | | MAR. . | 17 2 13 | 16 21 35 |
| | APRIL | 18 23 47 | 19 9 13 | | ○ | 31 20 35 | 1 10 11 |
| | MAY . | 18 12 31 | 18 22 56 | | APRIL | 15 14 57 | 15 8 21 |
| | ○ | 2 6 53 | 1 21 51 | | MAY . | 15 3 41 | 14 20 17 |
| | JUNE . | 17 1 15 | 17 10 22 | | JUNE . | 13 16 25 | 13 9 49 |
| | JULY . | 16 13 59 | 16 20 0 | | JULY . | 13 5 9 | 13 0 55 |
| | AUG. . | 15 2 43 | 15 4 41 | | AUG. . | 11 17 53 | 11 17 0 |
| | SEPT. . | 13 15 27 | 13 13 23 | | SEPT. . | 10 6 37 | 10 9 20 |
| | OCT. . | 13 4 11 | 12 22 48 | | ○ | 25 0 59 | 24 13 20 |
| | NOV. . | 11 16 55 | 11 9 26 | | OCT. . | 9 19 21 | 10 1 9 |
| | ○ | 23 11 17 | 26 18 34 | | NOV. . | 8 8 5 | 8 15 51 |
| | DEC. . | 11 5 39 | 10 21 29 | | DEC. . | 7 20 49 | 8 5 10 |
| 384. G.F. 19 22 10 | JAN. . | 9 18 24 | 9 10 58 | 387. C. 20 15 36 | JAN. . | 6 9 34 | 6 17 1 |
| | FEB. . | 8 7 8 | 8 1 46 | | FEB. . | 4 22 18 | 5 3 25 |
| | MAR. . | 8 19 52 | 8 17 34 | | MAR. . | 6 11 2 | 6 12 38 |
| | APRIL | 7 8 36 | 7 9 50 | | ○ | 21 5 24 | 21 14 39 |
| | MAY . | 6 21 20 | 7 1 47 | | APRIL | 4 23 46 | 4 21 11 |
| | ○ | 21 15 42 | 21 12 48 | | MAY . | 4 12 30 | 4 5 53 |
| | JUNE . | 5 10 4 | 5 16 39 | | JUNE . | 3 1 14 | 2 15 40 |
| | JULY . | 4 22 48 | 5 6 1 | | JULY . | 2 13 58 | 2 3 23 |
| | AUG. . | 3 11 32 | 3 17 50 | | AUG. . | 1 2 42 | 31 17 26 |
| | SEPT. . | 2 0 16 | 2 4 35 | | ○ | 30 15 26 | 30 9 42 |
| | OCT. . | 1 13 0 | 1 14 50 | | SEPT. . | 14 9 48 | 14 4 55 |
| | ○ | 31 1 44 | 31 1 10 | | OCT. . | 29 4 10 | 29 3 24 |
| | NOV. . | 14 20 6 | 14 18 45 | | NOV. . | 23 16 54 | 23 21 21 |
| | DEC. . | 29 14 28 | 29 11 51 | | DEC. . | 27 5 33 | 27 14 22 |
| | | 29 3 12 | 28 28 0 | | | 26 18 22 | 27 5 33 |
| 385. K. 20 8 58 | JAN. . | 27 15 56 | 27 10 40 | 388. D.A. 19 21 25 | JAN. . | 25 7 6 | 25 18 26 |
| | FEB. . | 26 4 41 | 25 23 1 | | FEB. . | 23 19 50 | 24 5 3 |
| | MAR. . | 27 17 25 | 27 12 16 | | MAR. . | 24 8 34 | 24 13 46 |
| | APRIL | 26 6 9 | 26 2 33 | | APRIL | 22 21 18 | 22 21 20 |
| | MAY . | 25 18 53 | 25 17 38 | | MAY . | 22 10 2 | 22 4 39 |
| | JUNE . | 24 7 37 | 24 9 2 | | JUNE . | 20 22 46 | 20 12 47 |
| | JULY . | 23 20 21 | 24 0 3 | | JULY . | 20 11 30 | 19 22 48 |
| | AUG. . | 22 9 5 | 22 14 18 | | AUG. . | 19 0 14 | 18 11 31 |
| | SEPT. . | 20 21 49 | 21 3 31 | | ○ | 2 18 36 | 2 21 3 |
| | OCT. . | 20 10 33 | 20 15 51 | | SEPT. . | 17 12 58 | 17 3 10 |
| | NOV. . | 18 23 17 | 19 3 29 | | OCT. . | 17 1 42 | 16 21 11 |
| | DEC. . | 18 12 1 | 18 14 36 | | NOV. . | 15 14 26 | 15 16 22 |
| | | | | | DEC. . | 15 3 10 | 15 11 8 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 389. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 392. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | | | | D.C. | | | |
| March. | JAN. . | 13 15 55 | 14 4 3 | March. | JAN. . | 11 7 5 | 11 1 12 |
| <i>d. h. m.</i> | FEB. . | 12 4 39 | 12 18 15 | <i>d. h. m.</i> | FEB. . | 9 19 49 | 9 18 37 |
| 20 3 13 | MAR. . | 13 17 23 | 14 5 31 | 19 20 40 | MAR. . | 10 8 33 | 10 12 14 |
| | APRIL | 12 6 7 | 12 14 21 | | APRIL | 8 21 17 | 9 4 55 |
| | MAY . | 11 18 51 | 11 21 36 | | MAY . | 8 10 1 | 8 19 45 |
| | JUNE . | 10 7 35 | 10 4 17 | | JUNE . | 6 22 45 | 7 8 22 |
| | JULY . | 9 20 19 | 9 11 30 | | JULY . | 6 11 29 | 6 18 57 |
| | AUG. . | 8 9 3 | 7 20 20 | | AUG. . | 5 0 13 | 5 4 13 |
| | SEPT. . | 6 21 47 | 6 7 45 | | SEPT. . | 3 12 57 | 3 13 1 |
| | OCT. . | 6 10 31 | 5 22 15 | | OCT. . | 3 1 41 | 2 22 13 |
| | NOV. . | 4 23 15 | 4 15 33 | | NOV. . | 1 14 25 | 1 8 21 |
| | DEC. . | 4 11 59 | 4 10 50 | | DEC. . | 1 3 9 | 30 19 42 |
| | | | | | | 30 15 53 | 30 8 20 |
| 390. | JAN. . | 3 0 44 | 3 6 21 | 393. | JAN. . | 29 4 38 | 28 22 17 |
| F. | ○ | 17 19 6 | 17 16 58 | B. | FEB. . | 27 17 22 | 27 13 21 |
| 20 9 2 | FEB. . | 1 13 28 | 2 0 28 | 20 2 29 | MAR. . | 29 6 6 | 29 5 11 |
| | MAR. . | 3 2 12 | 3 15 57 | | APRIL | 27 13 50 | 27 21 12 |
| | APRIL | 1 14 56 | 2 4 20 | | ○ | 12 13 12 | 12 13 6 |
| | MAY . | 1 3 40 | 1 13 55 | | MAY . | 27 7 34 | 27 12 39 |
| | JUNE . | 30 16 24 | 30 21 34 | | JUNE . | 25 20 18 | 26 2 53 |
| | ○ | 13 23 30 | 13 22 30 | | JULY . | 25 9 2 | 25 15 40 |
| | JULY . | 28 17 52 | 28 11 23 | | AUG. . | 23 21 40 | 24 3 9 |
| | AUG. . | 27 6 36 | 26 19 43 | | SEPT. . | 22 10 30 | 22 13 50 |
| | SEPT. . | 25 19 20 | 25 6 12 | | OCT. . | 21 23 14 | 22 0 17 |
| | OCT. . | 25 8 4 | 24 19 25 | | ○ | 5 17 36 | 5 13 0 |
| | NOV. . | 23 20 48 | 23 11 24 | | NOV. . | 20 11 58 | 20 10 55 |
| | DEC. . | 23 9 32 | 23 5 33 | | DEC. . | 20 0 42 | 19 21 50 |
| | ○ | 7 3 54 | 7 8 48 | | | | |
| 391. | JAN. . | 21 22 16 | 22 0 33 | 394. | JAN. . | 13 13 26 | 13 9 5 |
| B. | FEB. . | 20 11 0 | 20 18 57 | A. | FEB. . | 17 2 10 | 16 20 48 |
| 20 14 51 | MAR. . | 21 23 44 | 22 11 24 | 20 8 18 | MAR. . | 18 14 54 | 18 9 15 |
| | APRIL | 20 12 28 | 21 1 6 | | APRIL | 17 3 38 | 16 22 45 |
| | MAY . | 20 1 12 | 20 12 1 | | ○ | 1 22 0 | 2 6 8 |
| | JUNE . | 18 13 56 | 18 20 48 | | MAY . | 16 16 22 | 16 13 16 |
| | ○ | 3 8 18 | 2 23 31 | | JUNE . | 15 5 6 | 15 4 32 |
| | JULY . | 18 2 40 | 18 4 28 | | JULY . | 14 17 50 | 14 19 55 |
| | AUG. . | 16 15 24 | 16 12 3 | | AUG. . | 13 6 34 | 13 10 50 |
| | SEPT. . | 15 4 8 | 14 20 30 | | SEPT. . | 11 19 18 | 12 0 52 |
| | OCT. . | 14 16 52 | 14 6 34 | | OCT. . | 11 8 2 | 11 13 55 |
| | NOV. . | 13 5 36 | 12 18 41 | | ○ | 26 2 24 | 25 14 31 |
| | DEC. . | 12 13 20 | 12 8 59 | | NOV. . | 9 20 46 | 10 2 7 |
| | ○ | 27 12 42 | 27 23 0 | | DEC. . | 9 9 30 | 9 13 35 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 395. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 398. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| <i>G.</i> | JAN. . | 7 22 14 | 8 0 23 | <i>C.</i> | JAN. . | 4 13 25 | 5 0 0 |
| <i>March.</i> | FEB. . | 6 10 59 | 6 10 37 | | FEB. . | { 3 2 9 | 3 15 35 |
| <i>d. h. m.</i> | MAR. . | 7 23 43 | 7 20 30 | <i>March.</i> | ○ | { 17 20 31 | 17 14 42 |
| 20 14 6 | APRIL | { 6 12 27 | 6 6 36 | <i>d. h. m.</i> | MAR. . | 4 14 53 | 5 4 13 |
| | ○ | { 21 6 49 | 21 19 36 | 20 7 33 | APRIL | 3 3 37 | 3 14 4 |
| | MAY . | 6 1 11 | 5 17 33 | | MAY . | 2 16 21 | 2 21 54 |
| | JUNE . | 4 13 55 | 4 6 11 | | JUNE . | { 1 5 5 | 1 4 41 |
| | JULY . | 4 2 39 | 3 20 28 | | { 30 17 49 | 30 11 28 | |
| | AUG. . | 2 15 23 | 2 12 14 | | JULY . | 30 6 33 | 29 19 25 |
| | SEPT. . | { 1 4 7 | 1 4 47 | | ○ | { 14 0 55 | 14 6 32 |
| | ○ | { 30 16 51 | 30 21 13 | | AUG. . | { 23 19 17 | 23 5 31 |
| | OCT. . | { 15 11 13 | 14 23 12 | | SEPT. . | 27 8 1 | 26 18 31 |
| | NOV. . | { 30 5 35 | 30 12 43 | | OCT. . | 26 20 45 | 26 10 35 |
| | DEC. . | 28 18 19 | 29 3 2 | | NOV. . | 25 9 29 | 25 5 4 |
| | | 28 7 3 | 28 15 41 | | DEC. . | 24 22 13 | 25 0 33 |
| 396. | JAN. . | 26 19 43 | 27 2 44 | 399. | JAN. . | 23 10 53 | 23 19 35 |
| <i>F.E.</i> | FEB. . | 25 8 32 | 25 12 19 | <i>B.</i> | ○ | { 7 5 20 | 7 2 35 |
| 19 19 53 | MAR. . | 25 21 16 | 25 20 55 | | FEB. . | { 21 23 42 | 22 12 26 |
| | APRIL | 24 10 0 | 24 5 13 | 20 13 22 | MAR. . | 23 12 26 | 24 2 17 |
| | MAY . | 23 22 44 | 23 14 9 | | APRIL | 22 1 10 | 22 13 8 |
| | JUNE . | 22 11 28 | 22 0 41 | | MAY . | 21 13 54 | 21 21 37 |
| | JULY . | 22 0 12 | 21 13 32 | | JUNE . | 20 2 33 | 20 4 43 |
| | AUG. . | 20 12 56 | 20 4 50 | | JULY . | 19 15 22 | 19 11 34 |
| | SEPT. . | 19 1 40 | 18 22 7 | | AUG. . | 18 4 6 | 17 19 15 |
| | OCT. . | 18 14 24 | 18 16 18 | | SEPT. . | 16 16 50 | 16 4 41 |
| | NOV. . | 17 3 8 | 17 10 8 | | OCT. . | 16 5 34 | 15 16 35 |
| | DEC. . | 16 15 52 | 17 2 23 | | NOV. . | 14 18 18 | 14 7 14 |
| | | | | | DEC. . | 14 7 2 | 14 0 21 |
| 397. | JAN. . | 15 4 36 | 15 16 33 | 400. | JAN. . | 12 19 46 | 12 13 57 |
| <i>D.</i> | FEB. . | { 13 17 20 | 14 4 11 | <i>A.G.</i> | FEB. . | 11 8 30 | 11 13 41 |
| 20 1 44 | ○ | { 28 11 42 | 28 9 54 | 19 19 11 | MAR. . | 11 21 14 | 12 7 7 |
| | MAR. . | 15 6 4 | 15 13 38 | | APRIL | 10 9 53 | 10 22 9 |
| | APRIL | 13 18 43 | 13 21 31 | | MAY . | 9 22 42 | 10 10 25 |
| | MAY . | 13 7 32 | 13 4 42 | | JUNE . | { 8 11 26 | 8 20 14 |
| | JUNE . | 11 20 16 | 11 12 11 | | ○ | { 23 5 43 | 22 20 4 |
| | JULY . | 11 9 0 | 10 21 6 | | JULY . | 8 0 10 | 8 4 26 |
| | AUG. . | { 9 21 44 | 9 8 25 | | AUG. . | 6 12 54 | 6 12 5 |
| | ○ | { 21 16 6 | 24 20 11 | | SEPT. . | 5 1 33 | 4 20 6 |
| | SEPT. . | 8 10 23 | 7 22 41 | | OCT. . | 4 14 22 | 4 5 32 |
| | OCT. . | 7 23 12 | 7 15 45 | | NOV. . | 3 3 6 | 2 16 41 |
| | NOV. . | 6 11 56 | 6 10 39 | | | { 2 15 50 | 2 5 53 |
| | DEC. . | 6 0 40 | 6 5 56 | | DEC. ○ | { 17 10 12 | 17 20 39 |
| | | | | | | ... | 31 21 3 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (+ Full Mol.) | True New Moon. (+ Full Mol.) | Mean Vernal Equinox. | Month. | Mean New Moon. (+ Full Mol.) | True New Moon. (+ Full Mol.) |
|--|---------|------------------------------------|------------------------------------|--------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 401. E. | | d. h. m. | d. h. m. | A.D. 404. E. | | d. h. m. | d. h. m. |
| | JAN. . | { 1 4 35 19 17 10 | ... | March. d. h. m. 19 18 20 | JAN. . | 29 9 20 | 29 9 55 |
| March. d. h. m. 20 0 50 | FEB. . | ... | ... | | FEB. . | 29 21 10 | 29 19 42 |
| | MAR. . | { 1 0 8 19 18 47 | 1 7 8 | | MAR. . | 27 9 57 | 27 5 21 |
| | APRIL. | 29 7 31 | 29 15 57 | | ... | { 11 4 19 25 22 41 | 11 17 29 |
| | MAY . | 29 20 15 | 29 5 44 | | APRIL. | 25 22 41 | 25 15 31 |
| | ... | { 12 14 37 27 8 50 | 12 5 0 | | MAY . | 25 11 25 | 25 8 6 |
| | JUNE . | 27 8 50 | 27 17 21 | | JUNE . | 21 0 9 | 21 16 24 |
| | JULY . | 26 21 43 | 27 8 21 | | JULY . | 23 12 53 | 23 7 31 |
| | AUG. . | 25 10 27 | 25 12 31 | | AUG. . | 22 1 37 | 21 23 59 |
| | SEPT. . | 23 23 11 | 23 21 43 | | SEPT. . | 20 14 21 | 20 16 48 |
| | OCT. . | 23 11 55 | 23 7 31 | | ... | { 5 6 43 20 3 5 | 4 21 41 |
| | NOV. . | 22 0 30 | 21 18 19 | | OCT. . | 20 3 5 | 20 9 10 |
| | ... | { 6 19 1 21 13 23 | 7 2 45 | | NOV. . | 18 15 49 | 19 0 22 |
| | DEC. . | 21 13 23 | 21 6 14 | 405. A | DEC. . | 18 4 33 | 18 13 57 |
| 402. E. | JAN. . | 30 2 7 | 19 19 20 | 20 0 15 | JAN. . | 16 17 17 | 17 1 46 |
| 20 6 48 | FEB. . | 18 14 51 | 18 9 34 | | FEB. . | 15 6 1 | 15 11 54 |
| | MAR. . | 30 3 35 | 30 0 47 | | MAR. . | { 16 18 45 31 13 7 | 16 20 43 |
| | APRIL. | 18 16 19 | 18 16 34 | | ... | 31 13 7 | 31 21 37 |
| | MAY . | 18 5 8 | 18 8 15 | | APRIL. | 15 7 20 | 15 4 51 |
| | ... | { 1 23 25 16 17 47 | 1 20 12 | | MAY . | 14 20 13 | 14 13 9 |
| | JUNE . | 16 17 47 | 16 23 12 | | JUNE . | 13 8 57 | 12 22 39 |
| | JULY . | 16 6 31 | 16 12 54 | | JULY . | 12 21 41 | 12 10 12 |
| | AUG. . | 14 19 15 | 15 1 14 | | AUG. . | 11 10 25 | 11 0 21 |
| | SEPT. . | 13 7 50 | 13 12 32 | | SEPT. . | { 9 23 9 21 17 31 | 9 16 52 |
| | OCT. . | 12 20 43 | 12 23 19 | | ... | 21 17 31 | 21 13 16 |
| | NOV. . | { 11 9 27 20 3 49 | 11 10 0 | | OCT. . | 9 11 53 | 9 10 57 |
| | ... | 20 3 49 | 20 2 40 | | NOV. . | 8 0 37 | 8 5 20 |
| | DEC. . | 10 23 11 | 10 30 49 | 406. B. | DEC. . | 7 13 21 | 7 23 42 |
| 403. E. | JAN. . | 9 10 56 | 9 7 49 | 20 6 4 | JAN. . | 6 2 6 | 6 14 3 |
| 20 12 37 | FEB. . | 7 23 40 | 7 19 2 | | FEB. . | 4 14 50 | 5 2 52 |
| | MAR. . | 9 12 34 | 9 6 49 | | MAR. . | { 6 3 34 20 21 56 | 6 13 14 |
| | APRIL. | 8 1 8 | 7 19 27 | | ... | 20 21 56 | 20 21 47 |
| | MAY . | 7 18 52 | 7 9 14 | | APRIL. | 4 16 18 | 4 21 40 |
| | JUNE . | 6 2 30 | 6 0 8 | | MAY . | 4 5 2 | 4 4 55 |
| | JULY . | 5 15 20 | 5 15 29 | | JUNE . | 2 17 46 | 2 12 1 |
| | AUG. . | 4 4 4 | 4 6 54 | | JULY . | { 2 6 30 31 19 14 | 1 30 2 |
| | SEPT. . | 2 16 48 | 2 21 41 | | ... | 31 19 14 | 31 6 3 |
| | ... | { 2 5 32 31 18 16 | 2 11 32 | | AUG. . | 30 7 58 | 29 18 51 |
| | OCT. . | 31 18 16 | 1 0 24 | | ... | { 14 2 30 28 20 42 | 14 5 10 |
| | NOV. . | 30 7 0 | 30 12 22 | | SEPT. . | 28 20 42 | 28 10 41 |
| | DEC. . | 29 19 44 | 29 23 32 | | OCT. . | 26 9 36 | 26 4 56 |
| | | | | | NOV. . | 26 23 10 | 27 0 20 |
| | | | | | DEC. . | 25 10 54 | 26 19 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 407. F. March. <i>d. h. m.</i> 20 11 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 410. B. March. <i>d. h. m.</i> 20 5 19 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 24 23 39 | 25 12 12 | | ○ | { 6 20 27 | 7 7 40 |
| | FEB. . | 23 12 23 | 24 2 16 | | JAN. . | { 21 14 49 | 21 9 15 |
| | MAR. . | 25 1 7 | 25 13 21 | | FEB. . | 20 3 33 | 20 2 10 |
| | APRIL | 23 13 51 | 23 22 0 | | MAR. . | 21 16 17 | 21 19 17 |
| | MAY . | 23 2 35 | 23 5 6 | | APRIL | 20 5 1 | 20 11 39 |
| | JUNE . | 21 15 19 | 21 11 43 | | MAY . | 19 17 45 | 20 2 7 |
| | JULY . | 21 4 3 | 20 19 0 | | JUNE . | 18 6 29 | 18 15 14 |
| | AUG. . | 19 16 47 | 19 3 58 | | JULY . | 17 19 13 | 18 2 11 |
| | SEPT. . | 18 5 31 | 17 15 32 | | AUG. . | 16 7 57 | 16 11 53 |
| | OCT. . | 17 18 15 | 17 6 10 | | SEPT. . | 14 20 41 | 14 21 12 |
| | NOV. . | 16 6 59 | 15 23 36 | | OCT. . | 14 9 25 | 14 6 49 |
| | DEC. . | 15 19 43 | 15 18 48 | | NOV. . | 12 22 9 | 12 17 13 |
| | | | | | DEC. . | 12 10 53 | 12 4 34 |
| 408. E.D. 19 17 41 | JAN. . | { 14 8 27 | 14 14 12 | 411. A. 20 11 8 | JAN. . | 10 23 37 | 10 16 56 |
| | ○ | { 29 2 49 | 29 1 36 | | FEB. . | 9 12 21 | 9 6 21 |
| | FEB. . | 12 21 11 | 13 8 10 | | MAR. . | 11 1 5 | 10 20 47 |
| | MAR. . | 13 9 55 | 13 23 30 | | APRIL | 9 13 49 | 9 12 4 |
| | APRIL | 11 22 39 | 12 11 45 | | MAY . | { 9 2 33 | 9 3 43 |
| | MAY . | 11 11 23 | 11 21 16 | | ○ | { 23 20 55 | 23 20 34 |
| | JUNE . | 10 0 7 | 10 4 56 | | JUNE . | 7 15 17 | 7 19 6 |
| | JULY . | { 9 12 51 | 9 11 53 | | JULY . | 7 4 1 | 7 9 35 |
| | ○ | { 24 7 13 | 24 5 7 | | AUG. . | 5 16 45 | 5 22 49 |
| | AUG. . | 8 1 35 | 7 19 8 | | SEPT. . | 4 5 29 | 4 10 53 |
| | SEPT. . | 6 14 19 | 6 3 42 | | OCT. . | 3 18 13 | 3 22 8 |
| | OCT. . | 6 3 3 | 5 14 25 | | NOV. . | { 2 6 57 | 2 9 2 |
| | NOV. . | 4 15 47 | 4 3 44 | | ○ | { 17 1 19 | 16 20 53 |
| | DEC. . | 4 4 31 | 3 19 39 | | DEC. . | { 1 19 41 | 1 19 53 |
| | | | | | | { 31 8 25 | 31 6 45 |
| 409. C. 19 23 30 | JAN . | { 2 17 16 | 2 13 32 | 412. G.F. 19 16 57 | JAN. . | 29 21 10 | 29 17 40 |
| | ○ | { 17 11 38 | 17 17 36 | | FEB. . | 23 9 54 | 23 4 50 |
| | FEB. . | 1 6 0 | 1 8 15 | | MAR. . | 23 22 38 | 23 16 42 |
| | MAR. . | 2 18 44 | 3 2 19 | | APRIL | 27 11 22 | 27 5 38 |
| | APRIL | { 1 7 28 | 1 18 31 | | ○ | { 12 5 44 | 12 13 39 |
| | | { 30 20 12 | { 1 8 7 | | MAY . | { 27 0 6 | 26 19 48 |
| | MAY . | 30 8 56 | 30 19 8 | | JUNE . | 25 12 50 | 25 10 59 |
| | JUNE . | 23 21 40 | 29 4 7 | | JULY . | 25 1 34 | 25 2 37 |
| | ○ | { 13 16 2 | 13 6 15 | | AUG. . | 23 14 18 | 23 18 0 |
| | JULY . | { 23 10 24 | 23 12 4 | | SEPT. . | 22 3 2 | 22 8 38 |
| | AUG. . | 26 23 8 | 26 20 2 | | OCT. . | 21 15 46 | 21 22 16 |
| | SEPT. . | 25 11 52 | 25 4 51 | | ○ | { 5 10 8 | 4 22 41 |
| | OCT. . | 25 0 36 | 24 15 11 | | NOV. . | { 20 4 30 | 20 10 54 |
| | NOV. . | 23 13 20 | 23 3 21 | | DEC. . | 19 17 14 | 19 22 31 |
| | DEC. . | 23 2 4 | 22 17 28 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 413. E. March. <i>d. h. m.</i> 19 22 45 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 416. B.A. March. <i>d. h. m.</i> 19 16 12 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 18 5 58 | 18 9 12 | | JAN. . | 15 21 8 | 16 8 4 |
| | FEB. . | 16 18 42 | 16 19 3 | | FEB. . | 14 9 52 | 14 23 36 |
| | MAR. . | 18 7 27 | 18 4 28 | | ○ | 29 4 14 | 28 22 35 |
| | APRIL | 16 20 11 | 16 14 3 | | MAR. . | 14 22 36 | 15 12 3 |
| | ○ | 1 14 33 | 2 2 47 | | APRIL | 13 11 20 | 13 21 44 |
| | MAY . | 16 8 55 | 16 0 36 | | MAY . | 13 0 4 | 13 5 25 |
| | JUNE . | 14 21 39 | 14 12 51 | | JUNE . | 11 12 48 | 11 12 6 |
| | JULY . | 14 10 23 | 14 3 6 | | JULY . | 11 1 32 | 10 18 57 |
| | AUG. . | 12 23 7 | 12 19 3 | | AUG. . | 9 14 16 | 9 3 1 |
| | SEPT. . | 11 11 51 | 11 12 1 | | ○ | 24 8 38 | 24 13 51 |
| | OCT. . | 11 0 35 | 11 4 59 | | SEPT. . | 8 3 0 | 7 13 17 |
| | ○ | 25 18 57 | 25 7 42 | | OCT. . | 7 15 44 | 7 2 26 |
| | NOV. . | 9 13 19 | 9 21 6 | | NOV. . | 6 4 28 | 5 18 35 |
| | DEC. . | 9 2 3 | 9 11 42 | | DEC. . | 5 17 12 | 5 13 3 |
| 414. D. 20 4 34 | JAN. . | 7 14 47 | 8 0 27 | 417. G. 19 22 1 | JAN. . | 4 5 57 | 4 8 33 |
| | FEB. . | 6 3 31 | 6 11 18 | | FEB. . | 2 18 41 | 3 8 19 |
| | MAR. . | 7 16 15 | 7 20 34 | | ○ | 17 13 3 | 17 10 57 |
| | APRIL | 6 4 59 | 6 4 44 | | MAR. . | 4 7 25 | 4 19 58 |
| | MAY . | 5 17 43 | 5 12 38 | | APRIL | 2 20 9 | 3 9 41 |
| | JUNE . | 4 6 27 | 3 21 15 | | MAY . | 2 8 53 | 2 20 28 |
| | JULY . | 3 19 11 | 3 7 36 | | ○ | 31 21 37 | 1 4 56 |
| | ○ | 2 7 55 | 1 20 26 | | JUNE . | 30 10 21 | 30 12 9 |
| | AUG. . | 31 20 39 | 31 11 55 | | JULY . | 29 23 5 | 29 19 14 |
| | SEPT. . | 30 9 23 | 30 5 30 | | AUG. . | 28 11 49 | 28 3 12 |
| | OCT. . | 29 22 7 | 30 0 6 | | SEPT. . | 27 0 33 | 26 12 53 |
| | NOV. . | 28 10 51 | 28 13 19 | | OCT. . | 26 13 17 | 26 0 56 |
| | DEC. . | 27 23 35 | 28 10 53 | | NOV. . | 25 2 1 | 24 15 34 |
| | | | | | DEC. . | 24 14 45 | 24 8 29 |
| 415. C. 20 10 23 | JAN. . | 26 12 20 | 27 1 0 | 418. F. 20 3 50 | JAN. . | 23 3 30 | 23 2 47 |
| | FEB. . | 25 1 4 | 25 12 23 | | FEB. . | 21 16 14 | 21 21 8 |
| | ○ | 11 19 26 | 11 17 12 | | MAR. . | 23 4 53 | 23 14 14 |
| | MAR. . | 26 13 43 | 26 21 37 | | APRIL | 21 17 42 | 22 5 8 |
| | APRIL | 25 2 32 | 25 5 12 | | MAY . | 21 6 26 | 21 17 25 |
| | MAY . | 24 15 16 | 24 12 9 | | JUNE . | 19 19 10 | 20 3 25 |
| | JUNE . | 23 4 0 | 22 19 29 | | JULY . | 19 7 54 | 19 11 54 |
| | JULY . | 22 16 44 | 22 4 23 | | AUG. . | 17 20 33 | 17 19 56 |
| | AUG. . | 21 5 28 | 20 15 46 | | SEPT. . | 16 9 22 | 16 4 26 |
| | ○ | 4 23 50 | 5 4 5 | | OCT. . | 15 22 6 | 15 14 6 |
| | SEPT. . | 19 18 12 | 19 6 10 | | NOV. . | 14 10 50 | 14 1 24 |
| | OCT. . | 19 6 56 | 18 23 25 | | DEC. . | 13 23 34 | 13 14 29 |
| | NOV. . | 17 19 40 | 17 13 33 | | ○ | 28 17 56 | 29 5 14 |
| | DEC. . | 17 8 24 | 17 13 59 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|----------|------------------------------------|------------------------------------|
| A.D. 419. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 422. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | A. | | | |
| March. | JAN. . | 12 12 18 | 12 5 17 | March. | JAN. . | 9 8 28 | 9 8 24 |
| <i>d. h. m.</i> | FEB. . | 11 1 2 | 10 21 28 | <i>d. h. m.</i> | FEB. . | 7 18 12 | 7 18 30 |
| 20 9 39 | MAR. . | 12 13 46 | 12 14 20 | 20 8 5 | MAR. . | 9 4 56 | 9 8 51 |
| | APRIL . | 11 2 30 | 11 7 0 | | APRIL . | 7 17 40 | 7 12 59 |
| | MAY . | 10 15 14 | 10 22 35 | ○ | 22 12 2 | 23 0 35 | |
| | JUNE . | 9 8 58 | 9 12 27 | MAY . | 7 6 24 | 6 22 44 | |
| | ○ | 23 22 20 | 23 12 10 | JUNE . | 5 19 8 | 5 9 53 | |
| | JULY . | 8 16 42 | 9 0 25 | JULY . | 5 7 52 | 4 23 8 | |
| | AUG. . | 7 5 26 | 7 10 53 | AUG. . | 8 20 36 | 8 14 15 | |
| | SEPT. . | 5 18 10 | 5 20 33 | SEPT. . | 2 9 20 | 2 6 59 | |
| | OCT. . | 5 6 54 | 5 6 11 | ○ | 1 22 4 | 2 0 20 | |
| | NOV. . | 8 19 38 | 8 16 18 | OCT. ○ | 16 16 26 | 16 6 9 | |
| | DEC. . | 8 8 22 | 8 8 13 | 81 10 48 | 81 17 16 | | |
| | ○ | 18 2 44 | 18 10 55 | NOV. . | 20 23 32 | 30 8 52 | |
| | | | | DEC. . | 20 12 16 | 20 22 39 | |
| 420. | JAN. . | 1 21 7 | 1 14 59 | 423. | JAN. . | 28 1 1 | 28 10 24 |
| D.C. | 81 9 51 | 81 8 39 | | o. | FEB. . | 26 13 45 | 26 20 17 |
| 19 15 27 | FEB. . | 29 22 35 | 29 17 17 | 20 8 54 | MAR. . | 28 2 29 | 28 4 43 |
| | MAR. . | 30 11 19 | 30 7 53 | ○ | 11 20 51 | 12 4 29 | |
| | APRIL . | 29 0 8 | 29 23 12 | APRIL . | 26 15 13 | 26 12 28 | |
| | MAY . | 28 12 47 | 28 14 43 | MAY . | 26 8 57 | 25 20 26 | |
| | ○ | 12 7 9 | 12 8 37 | JUNE . | 24 16 41 | 24 5 41 | |
| | JUNE . | 27 1 31 | 27 5 48 | JULY . | 24 5 25 | 23 17 11 | |
| | JULY . | 26 14 15 | 26 19 51 | AUG. . | 22 18 9 | 22 7 21 | |
| | AUG. . | 25 2 50 | 25 8 44 | SEPT. . | 21 6 53 | 21 0 10 | |
| | SEPT. . | 23 15 43 | 23 20 39 | ○ | 6 1 15 | 5 21 46 | |
| | OCT. . | 23 4 27 | 23 7 56 | OCT. . | 20 19 37 | 20 18 37 | |
| | NOV. . | 21 17 11 | 21 18 56 | NOV. . | 19 8 21 | 19 13 22 | |
| | ○ | 6 11 33 | 6 10 39 | DEC. . | 18 21 5 | 19 7 2 | |
| | DEC. . | 21 5 55 | 21 5 46 | | | | |
| 421. | JAN. . | 19 18 40 | 19 16 33 | 424. | JAN. . | 17 9 49 | 17 22 27 |
| E. | FEB. . | 18 7 24 | 18 8 20 | V.E. | FEB. . | 15 22 33 | 16 11 10 |
| 19 21 16 | MAR. . | 19 20 8 | 19 14 30 | 19 14 43 | MAR. . | 16 11 18 | 16 21 18 |
| | APRIL . | 18 8 52 | 18 2 33 | ○ | 31 5 40 | 31 4 46 | |
| | MAY . | 17 21 30 | 17 15 54 | APRIL . | 15 0 2 | 15 5 26 | |
| | JUNE . | 16 10 20 | 16 6 32 | MAY . | 14 12 46 | 14 12 27 | |
| | JULY . | 15 23 4 | 15 22 5 | JUNE . | 13 1 30 | 12 19 23 | |
| | AUG. . | 14 11 48 | 14 13 50 | JULY . | 12 14 14 | 12 8 21 | |
| | SEPT. . | 13 0 32 | 13 5 12 | AUG. . | 11 2 58 | 10 13 24 | |
| | OCT. . | 12 13 16 | 12 19 40 | SEPT. . | 9 15 42 | 9 2 20 | |
| | NOV. . | 11 2 0 | 11 9 2 | ○ | 24 10 4 | 24 13 23 | |
| | DEC. . | 10 14 44 | 10 21 16 | OCT. . | 9 4 26 | 8 18 19 | |
| | | | | NOV. . | 7 17 10 | 7 12 46 | |
| | | | | DEC. . | 7 5 54 | 7 8 21 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| A.D. 425. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 428. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | A.G. | | | |
| March. | JAN. . | 5 18 38 | 6 3 18 | March. | JAN. . | { 3 9 48 | 3 1 54 |
| <i>d. h. m.</i> | FEB. . | 4 7 22 | 4 20 10 | March. | ○ | { 18 4 10 | 18 16 11 |
| 19 20 31 | MAR. . | 5 20 6 | 6 10 7 | <i>d. h. m.</i> | FEB. . | 1 22 32 | 1 17 12 |
| | APRIL | 4 8 50 | 4 21 2 | 19 13 58 | MAR. . | 2 11 16 | 2 9 32 |
| | MAY . | 3 21 34 | 4 5 31 | | APRIL | { 1 0 0 | 1 2 11 |
| | JUNE . | 2 10 18 | 2 12 32 | | MAY . | { 30 12 41 | 30 18 17 |
| | JULY . | { 1 23 2 | 1 19 11 | | JUNE . | 38 14 12 | 28 22 6 |
| | | { 31 11 46 | 31 2 34 | | ○ | { 13 8 34 | 12 20 32 |
| | AUG. . | 30 0 30 | 29 11 44 | | JULY . | { 28 2 56 | 28 9 27 |
| | SEPT. . | 28 13 14 | 27 23 28 | | AUG. . | 26 15 40 | 26 19 41 |
| | OCT. . | 28 1 58 | 27 14 13 | | SEPT. . | 25 4 24 | 25 5 30 |
| | NOV. . | 26 14 42 | 26 7 38 | | OCT. . | 24 17 8 | 24 15 38 |
| | DEC. . | 26 3 26 | 26 2 46 | | NOV. . | 23 5 52 | 23 2 8 |
| | | | | | DEC. . | 22 13 36 | 22 13 24 |
| 426. | JAN. . | 24 16 11 | 24 22 0 | 429. | JAN. . | 21 7 21 | 21 1 26 |
| C. | ○ | { 8 10 33 | 8 10 10 | F. | FEB. . | 19 20 5 | 19 14 18 |
| 20 2 20 | FEB. . | { 23 4 55 | 23 15 44 | 19 19 47 | MAR. . | 21 8 49 | 21 4 7 |
| | MAR. . | 24 17 39 | 25 6 54 | | APRIL | 19 21 33 | 19 18 52 |
| | APRIL | 23 6 23 | 23 19 3 | | MAY . | 19 10 17 | 19 10 14 |
| | MAY . | 22 19 7 | 23 4 35 | | ○ | { 3 4 39 | 3 4 1 |
| | JUNE . | 21 7 51 | 21 12 20 | | JUNE . | { 17 23 1 | 18 1 36 |
| | JULY . | 20 20 35 | 20 19 28 | | JULY . | 17 11 45 | 17 16 21 |
| | ○ | { 4 14 57 | 4 11 50 | | AUG. . | 16 0 29 | 16 6 5 |
| | AUG. . | { 19 9 19 | 19 3 0 | | SEPT. . | 14 13 13 | 14 18 44 |
| | SEPT. . | 17 22 3 | 17 11 53 | | OCT. . | 14 1 57 | 14 6 34 |
| | OCT. . | 17 10 47 | 16 22 48 | | NOV. . | { 12 14 41 | 12 17 53 |
| | NOV. . | 15 23 31 | 15 12 11 | | ○ | { 27 9 3 | 27 4 53 |
| | DEC. . | 15 12 15 | 15 3 56 | | DEC. . | 12 3 25 | 12 4 52 |
| 427. | JAN. . | { 14 0 59 | 13 21 29 | 430. | JAN. . | 10 16 9 | 10 15 35 |
| B. | ○ | { 28 19 21 | 29 2 17 | E. | FEB. . | 9 4 53 | 9 2 7 |
| 20 8 9 | FEB. . | 12 13 43 | 12 15 46 | 20 1 36 | MAR. . | 10 17 37 | 10 12 46 |
| | MAR. . | 14 2 28 | 14 9 29 | | APRIL | 9 6 21 | 9 0 2 |
| | APRIL | 12 15 12 | 13 1 28 | | MAY . | { 8 19 5 | 8 12 26 |
| | MAY . | 12 3 56 | 12 15 3 | | ○ | { 23 13 27 | 23 20 58 |
| | JUNE . | 10 16 40 | 11 2 12 | | JUNE . | 7 7 49 | 7 2 19 |
| | JULY . | { 10 5 24 | 10 11 28 | | JULY . | 6 20 33 | 6 17 28 |
| | ○ | { 24 23 46 | 24 13 4 | | AUG. . | 5 9 17 | 5 9 21 |
| | AUG. . | 8 18 8 | 8 19 47 | | SEPT. . | 3 22 1 | 4 1 15 |
| | SEPT. . | 7 6 52 | 7 4 9 | | OCT. . | 3 10 45 | 3 16 30 |
| | OCT. . | 6 19 36 | 6 13 21 | | NOV. . | { 1 23 29 | 2 6 42 |
| | NOV. . | 5 8 20 | 4 23 54 | | ○ | { 16 17 51 | 16 6 57 |
| | DEC. . | 4 21 4 | 4 12 5 | | DEC. . | { 1 12 13 | 1 19 41 |
| | | | | | | { 31 0 57 | 31 7 24 |

JERUSALEM CIVIL TIME.

| n al ox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| 1. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 434. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| ch. | JAN. . | 29 13 41 | 29 17 53 | G. | JAN. . | 26 4 52 | 26 16 2 |
| . m. | FEB. . | 28 2 26 | 28 3 23 | | FEB. . | 24 17 36 | 25 7 26 |
| ' 21 | MAR. . | 29 15 10 | 29 12 19 | March. | ○ | { 11 11 58 | 11 6 21 |
| | APRIL | 28 3 54 | 27 21 24 | <i>d. h. m.</i> | MAR. . | { 26 6 20 | 26 19 45 |
| | ○ | { 12 22 16 | 13 9 52 | 20 0 51 | APRIL | 24 19 4 | 25 5 17 |
| | MAY . | { 27 16 38 | 27 7 34 | | MAY . | 24 7 48 | 24 12 51 |
| | JUNE . | 26 5 22 | 25 19 33 | | JUNE . | 22 20 32 | 22 19 34 |
| | JULY . | 25 18 6 | 25 9 47 | | JULY . | 22 9 16 | 22 2 31 |
| | AUG. . | 24 6 50 | 24 1 57 | | AUG. . | 20 22 0 | 20 10 46 |
| | SEPT. . | 22 19 34 | 22 19 20 | | ○ | { 4 16 22 | 4 21 16 |
| | OCT. . | 22 8 18 | 22 12 52 | | SEPT. . | { 19 10 44 | 18 21 14 |
| | ○ | { 6 2 40 | 5 16 19 | | OCT. . | 18 23 28 | 18 10 32 |
| | Nov. . | { 20 21 2 | 21 5 27 | | Nov. . | 17 12 12 | 17 2 43 |
| | DEC. . | 20 9 46 | 20 20 20 | | DEC. . | 17 0 56 | 16 21 5 |
| 2. | JAN. . | 18 22 31 | 19 9 7 | 435. | JAN. . | 15 13 40 | 15 16 21 |
| n. | FEB. . | 17 11 15 | 17 19 46 | F. | FEB. . | { 14 2 24 | 14 10 53 |
| 3 13 | MAR. . | 17 23 59 | 18 4 41 | | ○ | { 28 20 46 | 28 19 12 |
| | APRIL | 16 12 43 | 16 12 29 | 20 6 40 | MAR. . | 15 15 9 | 16 3 21 |
| | MAY . | 16 1 27 | 15 20 1 | | APRIL | 14 3 53 | 14 16 53 |
| | JUNE . | 14 14 11 | 14 4 24 | | MAY . | 13 16 37 | 14 3 41 |
| | JULY . | 14 2 55 | 13 14 38 | | JUNE . | 12 5 21 | 12 12 15 |
| | AUG. . | 12 15 39 | 12 3 29 | | JULY . | 11 18 5 | 11 19 40 |
| | SEPT. . | 11 4 23 | 10 19 9 | | AUG. . | { 10 6 49 | 10 3 1 |
| | OCT. . | 10 17 7 | 10 18 3 | | ○ | { 25 1 11 | 24 23 34 |
| | Nov. . | 9 5 51 | 9 8 2 | | SEPT. . | 8 19 33 | 8 11 18 |
| | DEC. . | 8 18 35 | 9 2 31 | | OCT. . | 8 8 17 | 7 21 16 |
| | | | | | Nov. . | 6 21 1 | 6 9 26 |
| | | | | | DEC. . | 6 9 45 | 5 23 59 |
| 13. | JAN. . | 7 7 19 | 7 19 13 | | | | |
| n. | FEB. . | 5 20 3 | 6 9 16 | | | | |
| 9 2 | MAR. . | { 7 8 47 | 7 20 33 | 436. | JAN. . | 4 22 29 | 4 16 36 |
| | ○ | { 22 8 9 | 22 0 22 | E.D. | FEB. . | 3 11 13 | 3 10 26 |
| | APRIL | 5 21 31 | 6 5 27 | 19 12 29 | MAR. . | 3 23 57 | 4 4 23 |
| | MAY . | 5 10 15 | 5 12 43 | | APRIL | 2 12 41 | 2 21 12 |
| | JUNE . | 3 22 59 | 3 19 32 | | MAY . | { 2 1 25 | 2 12 0 |
| | JULY . | 3 11 43 | 3 2 50 | | | { 31 14 9 | { 1 0 22 |
| | AUG. . | { 2 0 27 | 1 11 45 | | JUNE . | 30 2 53 | { 30 10 35 |
| | ○ | { 31 13 11 | 30 23 14 | | JULY . | 29 15 37 | 29 19 27 |
| | SEPT. . | { 15 7 33 | 15 12 4 | | AUG. . | 28 4 21 | 28 3 54 |
| | OCT. . | { 30 1 55 | 29 13 43 | | SEPT. . | 26 17 5 | 26 12 43 |
| | Nov. . | 28 8 23 | 28 2 29 | | OCT. . | 26 5 49 | 25 22 47 |
| | DEC. . | 27 16 7 | 27 21 59 | | Nov. . | 24 18 33 | 24 10 9 |
| | | | | | DEC. . | 24 7 17 | 23 23 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-------------------------------|------------|------------------------------------|------------------------------------|
| A.D. 437. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 440. G.F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | ○ | { 8 1 39 | 8 13 43 | March. | JAN. . | 20 11 12 | 20 17 12 |
| <i>d. h. m.</i> | JAN. . | { 22 20 1 | 22 13 28 | <i>d. h. m.</i> | FEB. . | 18 23 56 | 19 2 58 |
| 19 18 17 | FEB. . | 21 8 46 | 21 5 5 | 19 11 44 | MAR. . | 19 12 40 | 19 11 53 |
| | MAR. . | 22 21 30 | 22 21 24 | | APRIL | 18 1 24 | 17 20 32 |
| | APRIL | 21 10 14 | 21 13 42 | ○ | { 2 19 46 | 3 7 37 | |
| | MAY . | 20 22 58 | 21 5 10 | MAY . | { 17 14 8 | 17 5 50 | |
| | JUNE . | 19 11 42 | 19 19 11 | JUNE . | 16 2 52 | 15 16 43 | |
| | ○ | { 4 6 4 | 3 19 25 | JULY . | 15 15 36 | 15 5 45 | |
| | JULY . | 19 0 26 | 19 7 30 | AUG. . | 14 4 20 | 13 21 5 | |
| | AUG. . | 17 13 10 | 17 13 28 | SEPT. . | 12 17 4 | 12 14 10 | |
| | SEPT. . | 16 1 54 | 16 4 41 | OCT. . | { 12 5 48 | 12 8 1 | |
| | OCT. . | 15 14 38 | 15 14 47 | ○ | { 27 0 10 | 26 14 47 | |
| | NOV. . | 14 3 22 | 14 1 12 | NOV. . | 10 18 32 | 11 1 26 | |
| | DEC. . | { 13 16 6 | 13 12 9 | DEC. . | 10 7 16 | 10 17 25 | |
| | ○ | { 28 10 28 | 28 19 2 | | | | |
| 438. B. | JAN. . | 12 4 50 | 11 23 40 | 441. E. | JAN. . | 8 20 0 | 9 7 17 |
| 20 0 6 | FEB. . | 10 17 34 | 10 11 51 | 19 17 33 | FEB. . | 7 8 44 | 7 18 54 |
| | MAR. . | 12 6 19 | 12 0 53 | | MAR. . | 8 21 28 | 9 4 29 |
| | APRIL | 10 19 3 | 10 14 53 | | APRIL | { 7 10 12 | 7 12 31 |
| | MAY . | 10 7 47 | 10 5 48 | ○ | { 22 4 34 | 22 11 12 | |
| | JUNE . | { 8 20 31 | 8 21 11 | MAY . | 6 22 56 | 6 19 56 | |
| | ○ | { 23 14 53 | 23 11 4 | JUNE . | 5 11 40 | 5 3 39 | |
| | JULY . | 8 9 15 | 8 12 23 | JULY . | 5 0 24 | 4 12 46 | |
| | AUG. . | 6 21 59 | 7 2 53 | AUG. . | 3 13 8 | 3 0 15 | |
| | SEPT. . | 5 10 43 | 5 16 20 | SEPT. . | 2 1 52 | 1 14 35 | |
| | OCT. . | 4 23 27 | 5 4 51 | ○ | { 1 14 36 | 1 7 36 | |
| | NOV. . | 3 12 11 | 3 16 38 | OCT. ○ | { 16 8 58 | 16 6 28 | |
| | DEC. . | { 3 0 55 | 3 3 53 | | { 31 3 20 | 31 2 23 | |
| | ○ | { 17 19 17 | 17 18 42 | NOV. . | 29 16 4 | 29 21 27 | |
| | | | | DEC. . | 29 4 43 | 29 15 16 | |
| 439. A. | JAN. . | { 1 13 39 | 1 14 44 | 442. D. | JAN. . | 27 17 33 | 28 6 44 |
| 20 5 55 | FEB. . | { 31 2 23 | 31 1 11 | 19 23 22 | FEB. . | 26 6 17 | 26 19 17 |
| | ... | ... | ... | | MAR. . | 27 19 1 | 28 5 11 |
| | MAR. . | { 1 15 7 | 1 11 28 | ○ | { 11 13 23 | 11 11 39 | |
| | APRIL | { 31 3 51 | 30 22 3 | APRIL | { 26 7 45 | 26 13 4 | |
| | MAY . | 29 16 35 | 29 9 35 | MAY . | 23 20 29 | 25 19 54 | |
| | JUNE . | 27 18 3 | 27 13 1 | JUNE . | 24 9 13 | 24 2 45 | |
| | JULY . | 27 6 47 | 27 4 42 | JULY . | 23 21 57 | 23 10 45 | |
| | AUG. . | 25 19 31 | 25 20 53 | AUG. . | 22 10 41 | 21 20 54 | |
| | SEPT. . | 24 8 15 | 24 12 49 | SEPT. . | 20 23 25 | 20 9 53 | |
| | OCT. . | 23 20 59 | 24 3 52 | ○ | { 5 17 47 | 5 21 42 | |
| | NOV. . | 22 9 43 | 22 17 42 | OCT. . | { 20 12 9 | 20 2 8 | |
| | DEC. . | 21 22 27 | 22 6 8 | NOV. . | 19 0 53 | 18 20 42 | |
| | | | | DEC. . | 18 13 37 | 18 16 18 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 443. c. March. d. h. m. 20 5 10 | | d. h. m. | d. h. m. | A.D. 446. f. March. d. h. m. 19 22 37 | | d. h. m. | d. h. m. |
| | JAN. . | 17 2 22 | 17 11 15 | | JAN. . | { 13 17 32 | 13 10 19 |
| | FEB. . | 15 15 6 | 16 4 1 | | ○ | { 28 11 54 | 29 0 37 |
| | MAR. . | 17 3 50 | 17 17 48 | | FEB. . | 12 6 16 | 12 1 6 |
| | APRIL | 15 16 34 | 16 4 35 | | MAR. . | 13 19 0 | 13 16 49 |
| | MAY . | 15 5 18 | 15 12 58 | | APRIL | 12 7 44 | 12 9 0 |
| | JUNE . | 13 18 2 | 13 19 58 | | MAY . | 11 20 28 | 12 0 51 |
| | JULY . | 13 6 46 | 13 2 43 | | JUNE . | 10 9 12 | 10 15 40 |
| | AUG. . | 11 19 30 | 11 10 18 | | JULY . | { 9 21 56 | 10 4 57 |
| | SEPT. . | 10 8 14 | 9 19 40 | | ○ | { 24 16 18 | 24 3 48 |
| | OCT. . | 9 20 58 | 9 7 36 | | AUG. . | 8 10 40 | 8 16 49 |
| | NOV. . | 8 9 42 | 7 22 24 | | SEPT. . | 6 23 24 | 7 3 36 |
| | DEC. . | 7 22 26 | 7 15 47 | | OCT. . | 6 12 8 | 6 13 56 |
| | | | | | NOV. . | 5 0 52 | 5 0 21 |
| 444. B.A. 19 10 59 | JAN. . | 6 11 10 | 6 10 39 | 447. E. 20 4 26 | JAN. . | 8 2 20 | 2 22 15 |
| | FEB. . | { 4 28 54 | 5 5 37 | | FEB. . | 1 15 4 | 1 9 52 |
| | ○ | { 19 18 16 | 19 18 35 | | MAR. . | 8 3 48 | 2 22 9 |
| | MAR. . | 5 12 38 | 5 23 7 | | APRIL | 1 16 32 | 1 11 22 |
| | APRIL | 4 1 22 | 4 14 7 | | MAY . | { 1 5 16 | 1 1 36 |
| | MAY . | 3 14 6 | 4 2 13 | | ○ | { 30 18 0 | 30 16 41 |
| | JUNE . | 2 2 50 | 2 11 47 | | JUNE . | { 14 12 22 | 14 11 26 |
| | JULY . | { 1 15 34 | 1 19 44 | | ○ | { 29 6 44 | 29 8 4 |
| | ○ | { 31 4 18 | 31 3 8 | | JULY . | 28 19 28 | 23 23 8 |
| | AUG. . | { 14 22 40 | 14 18 38 | | AUG. . | 27 8 12 | 27 13 24 |
| | SEPT. . | { 29 17 2 | 29 11 0 | | SEPT. . | 25 20 56 | 26 2 42 |
| | OCT. . | 28 5 46 | 27 20 11 | | OCT. . | 25 9 40 | 25 15 4 |
| | NOV. . | 27 18 30 | 27 7 18 | | NOV. . | 23 22 24 | 24 2 45 |
| | DEC. . | 26 7 14 | 25 20 42 | | ○ | { 8 16 46 | 8 12 53 |
| | | 25 19 58 | 25 12 13 | | DEC. . | { 23 11 8 | 23 13 50 |
| 445. G. 19 16 48 | JAN. . | 24 8 43 | 24 5 22 | 448. D.C. 19 10 15 | JAN. . | 21 23 53 | 22 0 22 |
| | ○ | { 8 3 5 | 8 10 52 | | FEB. . | 20 12 37 | 20 10 29 |
| | FEB. . | { 22 21 27 | 22 23 10 | | MAR. . | 21 1 21 | 20 20 36 |
| | MAR. . | 24 10 11 | 24 16 30 | | APRIL | 19 14 5 | 19 7 17 |
| | APRIL | 22 22 55 | 23 8 18 | | MAY . | 19 2 49 | 18 19 15 |
| | MAY . | 22 11 39 | 22 21 53 | | ○ | { 2 21 11 | 3 4 18 |
| | JUNE . | 21 0 28 | 21 9 13 | | JUNE . | { 17 15 33 | 17 8 51 |
| | JULY . | 20 13 7 | 20 18 50 | | JULY . | 17 4 17 | 17 0 2 |
| | ○ | { 4 7 29 | 3 19 58 | | AUG. . | 15 17 1 | 15 16 13 |
| | AUG. . | { 19 1 51 | 19 3 35 | | SEPT. . | 14 5 45 | 14 8 38 |
| | SEPT. . | 17 14 35 | 17 12 24 | | OCT. . | 13 13 29 | 14 0 29 |
| | OCT. . | 17 8 19 | 16 21 57 | | NOV. . | { 12 7 13 | 12 15 13 |
| | NOV. . | 15 16 3 | 15 8 42 | | ○ | { 27 1 35 | 26 14 19 |
| | DEC. . | 15 4 47 | 14 20 48 | | DEC. . | 11 19 57 | 12 4 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 449. B. March. <i>d. h. m.</i> 19 16 3 | JAN. . | <i>d. h. m.</i> 10 8 42 | <i>d. h. m.</i> 10 16 15 | A.D. 452. F.E. March. <i>d. h. m.</i> 19 9 30 | JAN. . | <i>d. h. m.</i> 7 23 51 | <i>d. h. m.</i> 8 5 54 |
| | FEB. . | 8 21 26 | 9 2 31 | | FEB. . | 6 12 35 | 6 23 51 |
| | MAR. . | 10 10 10 | 10 11 35 | | MAR. . | { 7 1 20 | 7 15 8 |
| | APRIL | 8 22 54 | 8 20 2 | | ○ | { 21 19 42 | 21 14 1 |
| | MAY . | { 8 11 38 | 8 4 42 | | APRIL | 5 14 4 | 6 3 17 |
| | ○ | { 23 6 0 | 23 16 52 | | MAY . | 5 2 48 | 5 12 43 |
| | JUNE . | 7 0 22 | 6 14 31 | | JUNE . | 3 15 32 | 3 20 16 |
| | JULY . | 6 13 6 | 6 2 21 | | JULY . | 3 4 16 | 3 3 4 |
| | AUG. . | 5 1 50 | 4 16 35 | | AUG. . | { 1 17 0 | 1 10 11 |
| | SEPT. . | 3 14 34 | 3 9 2 | | ○ | { 31 5 44 | 30 18 41 |
| | OCT. . | 3 3 18 | 3 2 51 | | SEPT. . | { 15 0 6 | 15 4 50 |
| | NOV. . | { 1 16 2 | 1 20 50 | | OCT. . | { 29 18 23 | 29 5 21 |
| | ○ | { 16 10 24 | 16 1 2 | | NOV. . | 29 7 12 | 28 18 47 |
| | DEC. . | { 1 4 46 | 1 13 51 | | DEC. . | 27 19 56 | 27 10 56 |
| | | { 30 17 30 | 31 4 55 | | | 27 8 40 | 27 5 7 |
| 450. A. 19 21 52 | JAN. . | 29 6 14 | 29 17 33 | 453. D. 19 15 19 | JAN. . | 25 21 25 | 26 0 6 |
| | FEB. . | 27 18 58 | 28 4 4 | | FEB. . | 24 10 8 | 24 18 20 |
| | MAR. . | 29 7 42 | 29 12 37 | | ○ | { 11 4 30 | 11 3 19 |
| | APRIL | 27 20 26 | 27 20 6 | | MAR. . | { 25 22 52 | 26 10 35 |
| | MAY . | 27 9 10 | 27 3 23 | | APRIL | 24 11 36 | 25 0 4 |
| | JUNE . | 25 21 54 | 25 11 35 | | MAY . | 24 0 20 | 24 10 51 |
| | JULY . | 25 10 38 | 24 21 46 | | JUNE . | 22 13 4 | 22 19 34 |
| | AUG. . | 23 23 22 | 23 10 40 | | JULY . | 22 1 48 | 22 3 14 |
| | SEPT. . | 22 12 6 | 22 2 32 | | AUG. . | 20 14 32 | 20 10 55 |
| | OCT. . | 22 0 50 | 21 20 43 | | ○ | { 4 8 54 | 4 6 39 |
| | NOV. . | 20 13 34 | 20 15 57 | | SEPT. . | { 19 3 16 | 18 19 31 |
| | DEC. . | 20 2 18 | 20 10 41 | | OCT. . | 18 16 0 | 18 5 45 |
| | | | | | NOV. . | 17 4 44 | 16 18 1 |
| | | | | | DEC. . | 16 17 28 | 16 8 25 |
| 451. G. 20 3 41 | JAN. . | 18 15 2 | 19 3 26 | 454. C. 19 21 8 | JAN. . | 15 6 13 | 15 0 41 |
| | FEB. . | 17 3 46 | 17 17 24 | | FEB. . | 13 18 57 | 13 18 2 |
| | MAR. . | 18 16 31 | 19 4 30 | | MAR. . | 15 7 41 | 15 11 32 |
| | ○ | { 2 10 53 | 2 7 28 | | APRIL | 13 20 25 | 14 4 4 |
| | APRIL | { 17 5 15 | 17 13 10 | | MAY . | 13 9 9 | 13 18 46 |
| | MAY . | 16 17 59 | 16 20 13 | | JUNE . | 11 21 53 | 12 7 16 |
| | JUNE . | 15 6 43 | 15 2 58 | | JULY . | 11 10 37 | 11 17 48 |
| | JULY . | 14 19 27 | 14 10 15 | | AUG. . | 9 23 21 | 10 3 6 |
| | AUG. . | 13 8 11 | 12 19 17 | | SEPT. . | 8 12 5 | 8 11 59 |
| | SEPT. . | { 11 20 55 | 11 6 54 | | OCT. . | 8 0 49 | 7 21 19 |
| | ○ | { 26 15 17 | 26 20 12 | | NOV. . | 6 13 33 | 6 7 35 |
| | OCT. . | 11 9 39 | 10 21 37 | | DEC. . | 6 2 17 | 5 19 4 |
| | NOV. . | 9 22 23 | 9 15 10 | | | | |
| | DEC. . | 9 11 7 | 9 10 27 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| A.D. 455. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 458. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | { 4 15 1 | 4 7 41 | E. | JAN. . | { 1 6 11 | 1 14 57 |
| March. | ○ | { 19 9 23 | 19 22 7 | March. | FEB. . | { 30 18 55 | 31 1 52 |
| <i>d. h. m.</i> | FEB. . | 3 3 45 | 2 21 35 | <i>d. h. m.</i> | ... | ... | ... |
| 20 2 56 | MAR. . | 4 16 29 | 4 12 36 | 19 20 23 | MAR. . | { 1 7 39 | 1 11 18 |
| | APRIL | 3 5 13 | 3 4 22 | | ... | { 30 20 23 | 30 19 46 |
| | MAY . | 2 17 57 | 2 20 18 | | APRIL | 29 9 7 | 29 4 0 |
| | JUNE . | { 1 6 41 | 1 11 40 | | ○ | { 14 3 29 | 14 14 31 |
| | ○ | { 30 19 25 | { 1 1 52 | | MAY . | { 28 21 51 | 28 12 57 |
| | JULY . | { 15 13 47 | { 15 2 44 | | JUNE . | 27 10 35 | 26 23 35 |
| | ... | { 30 8 9 | { 30 14 37 | | JULY . | 26 23 19 | 26 12 34 |
| | AUG. . | 28 20 53 | 29 2 8 | | AUG. . | 25 12 3 | 25 4 5 |
| | SEPT. . | 27 9 37 | 27 12 55 | | SEPT. . | 24 0 47 | 23 21 30 |
| | OCT. . | 26 22 21 | 26 23 28 | | OCT. . | 23 13 31 | 23 15 47 |
| | NOV. . | 25 11 5 | 25 10 8 | | ○ | { 7 7 53 | 6 23 30 |
| | DEC. . | 24 23 49 | 24 21 4 | | NOV. . | { 22 2 15 | 22 9 37 |
| | ○ | { 8 18 12 | 9 3 4 | 459. | DEC. . | 21 14 59 | 22 1 52 |
| 456. | JAN. . | { 23 12 34 | 23 8 18 | D. | JAN. . | 20 3 44 | 20 15 50 |
| A.G. | FEB. . | 22 1 18 | 21 19 57 | 20 2 12 | FEB. . | 18 16 28 | 19 3 16 |
| 19 8 45 | MAR. . | 22 14 2 | 22 8 21 | | MAR. . | 20 5 12 | 20 12 38 |
| | APRIL | 21 2 46 | 20 21 49 | | APRIL | 18 17 56 | 18 20 19 |
| | MAY . | 20 15 30 | 20 12 19 | | ○ | { 3 12 18 | 3 17 50 |
| | JUNE . | 19 4 14 | 19 3 35 | | MAY . | { 18 6 40 | 18 3 25 |
| | ○ | { 3 22 36 | 3 18 32 | | JUNE . | 16 19 24 | 16 10 56 |
| | JULY . | { 18 16 58 | 18 19 1 | | JULY . | 16 8 8 | 15 19 58 |
| | AUG. . | 17 5 42 | 17 9 58 | | AUG. . | 14 20 52 | 14 7 29 |
| | SEPT. . | 15 18 26 | 16 0 3 | | SEPT. . | 13 9 36 | 12 21 58 |
| | OCT. . | 15 7 10 | 15 13 9 | | OCT. . | { 12 22 20 | 12 15 13 |
| | NOV. . | 13 19 54 | 14 1 22 | | ○ | { 27 16 42 | 27 15 7 |
| | DEC. . | { 13 8 38 | 13 12 51 | 460. | NOV. . | 11 11 4 | 11 10 14 |
| | ○ | { 23 3 0 | 23 2 33 | C.D. | DEC. . | 10 23 48 | 11 5 31 |
| 457. | JAN. . | 11 21 23 | 11 23 36 | 19 8 1 | JAN. . | 9 12 33 | 9 28 28 |
| F. | FEB. . | 10 10 7 | 10 9 43 | | FEB. . | 8 1 17 | 8 14 52 |
| 19 14 34 | MAR. . | 11 22 51 | 11 19 30 | | MAR. . | 8 14 1 | 9 3 16 |
| | APRIL | 10 11 35 | 10 5 32 | | APRIL | { 7 2 45 | 7 12 56 |
| | MAY . | 10 0 19 | 9 16 34 | | ○ | { 21 21 7 | 21 18 26 |
| | JUNE . | 8 13 3 | 8 5 10 | | MAY . | 6 15 29 | 6 20 38 |
| | JULY . | 8 1 47 | 7 19 33 | | JUNE . | 5 4 13 | 5 8 21 |
| | AUG. . | 6 14 31 | 6 11 25 | | JULY . | 4 16 57 | 4 10 13 |
| | SEPT. . | 5 3 15 | 5 4 3 | | AUG. . | 3 5 41 | 2 18 16 |
| | OCT. . | 4 15 59 | 4 20 34 | | SEPT. . | 1 18 25 | { 1 4 34 |
| | NOV. . | 3 4 43 | 3 12 11 | | ... | { 1 7 9 | { 30 17 48 |
| | DEC. . | 2 17 27 | 3 2 23 | | ○ | { 16 1 31 | 16 6 9 |
| | | | | | ... | { 30 19 53 | 30 10 4 |
| | | | | | NOV. . | 29 8 37 | 29 4 40 |
| | | | | | DEC. . | 28 21 21 | 29 0 14 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 461. A. March. d. h. m. 19 13 49 | | d. h. m. | d. h. m. | A.D. 464. E.D. March. d. h. m. 19 7 15 | | d. h. m. | d. h. m. |
| | JAN. . | 27 10 5 | 27 19 3 | | JAN. . | 25 1 15 | 24 18 39 |
| | FEB. . | 25 22 49 | 26 11 41 | | ○ | 8 19 37 | 9 8 53 |
| | MAR. . | 27 11 33 | 28 1 20 | | FEB. . | 23 13 59 | 23 8 50 |
| | APRIL | 26 0 17 | 26 12 15 | | MAR. . | 24 2 43 | 23 23 59 |
| | MAY . | 25 13 1 | 25 20 19 | | APRIL | 22 15 27 | 22 15 41 |
| | JUNE . | 24 1 45 | 24 3 24 | | MAY . | 22 4 11 | 22 7 20 |
| | JULY . | 23 14 29 | 23 10 19 | | JUNE . | 20 16 55 | 20 22 14 |
| | AUG. . | 22 3 13 | 21 18 7 | | JULY . | 20 5 39 | 20 11 54 |
| | SEPT. . | 20 15 57 | 20 3 45 | | ○ | 4 0 1 | 3 11 12 |
| | OCT. . | 20 4 41 | 19 15 51 | | AUG. . | 18 18 23 | 19 0 16 |
| | NOV. . | 18 17 25 | 18 6 40 | | SEPT. . | 17 7 7 | 17 11 38 |
| | DEC. . | 18 6 9 | 17 23 53 | | OCT. . | 16 19 51 | 16 22 28 |
| | | | | | NOV. . | 15 8 35 | 15 9 14 |
| 462. G. | JAN. . | 16 18 54 | 16 18 30 | 465. C. | JAN. . | 13 10 3 | 13 7 1 |
| 19 19 38 | FEB. . | 15 7 38 | 15 13 9 | 19 13 4 | FEB. . | 11 22 47 | 11 18 11 |
| | ○ | 2 2 0 | 2 2 53 | | MAR. . | 13 11 32 | 13 5 54 |
| | MAR. . | 16 20 22 | 17 6 22 | | APRIL | 12 0 16 | 11 18 30 |
| | APRIL | 15 9 6 | 15 21 12 | | MAY . | 11 13 0 | 11 8 16 |
| | MAY . | 14 21 50 | 15 9 18 | | JUNE . | 10 1 44 | 9 23 7 |
| | JUNE . | 13 10 34 | 13 19 1 | | ○ | 24 20 6 | 24 13 55 |
| | JULY . | 12 23 18 | 13 3 12 | | JULY . | 9 14 28 | 9 14 36 |
| | AUG. . | 11 12 2 | 11 10 55 | | AUG. . | 8 3 12 | 8 6 3 |
| | ○ | 26 6 24 | 26 1 36 | | SEPT. . | 6 15 56 | 6 20 53 |
| | SEPT. . | 10 0 46 | 9 19 8 | | OCT. . | 6 4 40 | 6 10 47 |
| | OCT. . | 9 13 30 | 9 4 39 | | NOV. . | 4 17 24 | 4 23 41 |
| | NOV. . | 8 2 14 | 7 15 57 | | DEC. . | 4 6 8 | 4 11 40 |
| | DEC. . | 7 14 58 | 7 5 16 | | ○ | 19 0 30 | 18 20 54 |
| 463. F. | JAN. . | 6 3 43 | 5 20 30 | 466. B. | JAN. . | 2 13 53 | 2 22 46 |
| 20 1 27 | FEB. . | 4 16 27 | 4 13 10 | 19 18 53 | FEB. . | 1 7 37 | 1 9 2 |
| | ○ | 19 10 49 | 19 19 17 | | MAR. . | 2 20 21 | 2 18 42 |
| | MAR. . | 6 5 11 | 6 6 28 | | APRIL | 1 9 5 | 1 4 17 |
| | APRIL | 4 17 55 | 4 23 25 | | ○ | 30 21 49 | 30 14 23 |
| | MAY . | 4 6 39 | 4 15 2 | | MAY . | 30 10 33 | 30 2 2 |
| | JUNE . | 2 19 23 | 3 4 41 | | ○ | 14 4 55 | 14 11 38 |
| | JULY . | 2 8 7 | 2 16 17 | | JUNE . | 28 23 17 | 28 15 26 |
| | ○ | 31 20 51 | 1 2 18 | | JULY . | 23 12 1 | 23 6 41 |
| | AUG. . | 15 15 13 | 15 3 4 | | AUG. . | 27 0 45 | 26 23 13 |
| | SEPT. . | 30 9 35 | 30 11 30 | | SEPT. . | 25 13 29 | 25 16 8 |
| | OCT. . | 28 22 19 | 28 20 47 | | OCT. . | 25 2 13 | 25 8 34 |
| | NOV. . | 23 11 3 | 23 6 41 | | NOV. . | 23 14 57 | 23 23 46 |
| | DEC. . | 26 23 47 | 26 17 34 | | ○ | 8 9 19 | 7 23 43 |
| | | 26 12 31 | 26 5 34 | | DEC. . | 23 3 41 | 23 13 16 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 467. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 470. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. | JAN. . | 21 16 25 | 22 0 57 | D. March. | JAN. . | 18 7 35 | 18 13 46 |
| <i>d. h. m.</i> | FEB. . | 20 5 9 | 20 10 57 | <i>d. h. m.</i> | FEB. . | 16 20 19 | 17 7 33 |
| 20 0 42 | MAR. . | 21 17 53 | 21 19 38 | 19 18 8 | MAR. . | 18 9 3 | 18 22 38 |
| | APRIL | 20 6 37 | 20 3 40 | | ○ | { 2 3 25 | 1 21 33 |
| | MAY . | 19 19 21 | 19 11 57 | | APRIL | { 16 21 47 | 17 10 40 |
| | ○ | { 3 13 43 | 3 23 12 | | MAY . | 16 10 31 | 16 20 3 |
| | JUNE . | { 18 8 5 | 17 21 30 | | JUNE . | 14 23 15 | 15 3 39 |
| | JULY . | 17 20 49 | 17 9 12 | | JULY . | 14 11 59 | 14 10 35 |
| | AUG. . | 16 9 38 | 15 23 31 | | AUG. . | 13 0 43 | 12 17 58 |
| | SEPT. . | 14 22 17 | 14 16 14 | | SEPT. . | { 11 13 27 | 11 2 43 |
| | OCT. . | 14 11 1 | 14 10 26 | | ○ | { 26 7 49 | 26 12 28 |
| | NOV. . | { 12 23 45 | 13 4 52 | | OCT. . | 11 2 11 | 10 13 37 |
| | ○ | { 27 18 7 | 27 9 49 | | NOV. . | 9 14 55 | 9 3 8 |
| | DEC. . | 12 12 29 | 12 22 11 | | DEC. . | 9 3 39 | 8 19 9 |
| 468. | JAN. . | 11 1 13 | 11 13 24 | 471. | JAN. . | 7 16 24 | 7 13 6 |
| G.F. | FEB. . | 9 13 57 | 10 2 1 | C. | FEB. . | 6 5 8 | 6 7 43 |
| 19 6 31 | MAR. . | 10 2 42 | 10 12 12 | 19 23 57 | MAR. . | { 7 17 52 | 8 1 38 |
| | APRIL | 8 15 26 | 8 20 29 | | ○ | { 22 12 14 | 22 11 20 |
| | MAY . | 8 4 10 | 8 3 39 | | APRIL | 6 6 36 | 6 17 39 |
| | JUNE . | 6 16 54 | 6 10 44 | | MAY . | 5 19 20 | 6 7 5 |
| | JULY . | 6 5 38 | 5 18 50 | | JUNE . | 4 8 4 | 4 17 59 |
| | AUG. . | 4 18 22 | 4 5 0 | | JULY . | 3 20 48 | 4 2 54 |
| | SEPT. . | 3 7 6 | 2 13 2 | | AUG. . | { 2 9 32 | 2 10 53 |
| | OCT. . | 2 19 50 | 2 10 5 | | | { 31 22 16 | 31 18 56 |
| | NOV. . | { 1 8 34 | 1 4 30 | | ○ | { 15 16 38 | 15 13 52 |
| | | { 30 21 18 | 30 23 57 | | SEPT. . | { 30 11 0 | 30 3 55 |
| | DEC. . | 30 10 2 | 30 18 47 | | OCT. . | 29 23 44 | 29 14 24 |
| 469. | JAN. . | 28 22 46 | 29 11 33 | 472. | JAN. . | 26 13 56 | 26 8 40 |
| E. | FEB. . | 27 11 31 | 28 1 25 | B.A. | FEB. . | 25 2 40 | 25 1 30 |
| 19 12 20 | MAR. . | 29 0 15 | 29 12 17 | 19 5 46 | MAR. . | 25 15 24 | 25 18 31 |
| | ○ | { 12 18 37 | 12 14 27 | | APRIL | 24 4 8 | 24 10 45 |
| | APRIL | { 27 12 59 | 27 20 46 | | MAY . | 23 16 52 | 24 1 26 |
| | MAY . | 27 1 43 | 27 3 47 | | JUNE . | 22 5 36 | 22 14 8 |
| | JUNE . | 25 14 27 | 25 10 25 | | JULY . | 21 18 20 | 22 1 3 |
| | JULY . | 25 3 11 | 24 17 47 | | AUG. . | 20 7 4 | 20 10 49 |
| | AUG. . | 23 15 55 | 23 2 56 | | SEPT. . | 18 19 48 | 18 20 13 |
| | SEPT. . | 22 4 39 | 21 14 44 | | OCT. . | 18 8 32 | 18 5 57 |
| | ○ | { 6 23 1 | 7 4 27 | | NOV. . | 16 21 16 | 16 16 26 |
| | OCT. . | { 21 17 23 | 21 5 34 | | DEC. . | 16 10 0 | 16 3 50 |
| | NOV. . | 20 6 7 | 19 23 9 | | | | |
| | DEC. . | 19 18 51 | 19 18 25 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 473. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 476. D.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | { 14 22 45 | 14 16 14 | March. | JAN. . | 12 13 55 | 12 23 41 |
| | ○ | { 29 17 7 | 30 6 23 | <i>d. h. m.</i> | FEB. . | 11 2 39 | 11 10 24 |
| March. | FEB. . | 13 11 29 | 13 5 36 | 19 5 1 | MAR. . | 11 15 23 | 11 19 30 |
| <i>d. h. m.</i> | MAR. . | 15 0 13 | 14 19 59 | | APRIL | 10 4 7 | 10 3 34 |
| 19 11 35 | APRIL | 13 12 57 | 13 11 13 | | MAY . | { 9 16 51 | 9 11 24 |
| | MAY . | 13 1 41 | 13 2 49 | | ○ | { 24 11 13 | 24 21 21 |
| | JUNE . | 11 14 25 | 11 18 10 | | JUNE . | 8 5 35 | 7 20 4 |
| | JULY . | { 11 3 9 | 11 8 37 | | JULY . | 7 18 19 | 7 6 31 |
| | ○ | { 25 21 31 | 25 10 9 | | AUG. . | 6 7 8 | 5 19 32 |
| | AUG. . | 9 15 53 | 9 21 51 | | SEPT. . | 4 19 47 | 4 11 11 |
| | SEPT. . | 8 4 37 | 8 9 57 | | OCT. . | 4 8 31 | 4 4 57 |
| | OCT. . | 7 17 21 | 7 21 17 | | Nov. . | { 2 21 15 | 2 23 39 |
| | Nov. . | 6 6 5 | 6 8 16 | | ○ | { 17 15 37 | 17 8 20 |
| | DEC. . | 5 18 49 | 5 19 8 | | DEC. . | { 2 9 59 | 2 17 51 |
| | | | | | | { 31 22 44 | ... |
| 474. F. | JAN. . | { 4 7 34 | 4 5 58 | 477. B. | JAN. . | { ... | 1 10 19 |
| | ○ | { 19 1 56 | 19 11 1 | | FEB. . | { 30 11 23 | 31 0 14 |
| | FEB. . | 2 20 18 | 2 16 49 | | | { ... | ... |
| 19 17 24 | MAR. . | 4 9 2 | 4 3 57 | 19 10 50 | MAR. . | { 1 0 12 | 1 11 30 |
| | APRIL | 2 21 46 | 2 15 44 | | | { 30 12 56 | 30 20 29 |
| | MAY . | { 2 10 30 | 2 4 39 | | APRIL | 29 1 40 | 29 3 58 |
| | | { 31 23 14 | 31 18 50 | | ○ | { 13 20 2 | 14 0 24 |
| | JUNE . | 30 11 58 | 30 10 4 | | MAY . | { 28 14 24 | 28 10 51 |
| | ○ | { 15 6 20 | 15 2 5 | | JUNE . | 27 3 8 | 26 18 15 |
| | JULY . | { 30 0 42 | 30 1 45 | | JULY . | 26 15 52 | 26 3 16 |
| | AUG. . | 28 13 26 | 28 17 11 | | AUG. . | 25 4 36 | 24 14 51 |
| | SEPT. . | 27 2 10 | 27 7 53 | | SEPT. . | 23 17 20 | 23 5 29 |
| | OCT. . | 26 14 54 | 26 21 34 | | OCT. . | 23 6 4 | 22 22 56 |
| | Nov. . | 25 3 38 | 25 10 11 | | ○ | { 7 0 26 | 6 23 57 |
| | DEC. . | 24 16 22 | 24 21 46 | | Nov. . | { 21 18 43 | 21 18 10 |
| | | | | | DEC. . | 21 7 32 | 21 18 34 |
| | ○ | { 8 10 44 | 8 10 28 | 478. A. | JAN. . | 19 20 16 | 20 7 32 |
| 475. E. | JAN. . | { 23 5 6 | 23 8 21 | | FEB. . | 18 9 0 | 18 22 50 |
| | FEB. . | 21 17 50 | 21 18 5 | 19 16 39 | MAR. . | 19 21 44 | 20 11 5 |
| 19 23 13 | MAR. . | 23 6 34 | 23 3 24 | | APRIL | 18 10 28 | 18 20 33 |
| | APRIL | 21 19 18 | 21 12 55 | | ○ | { 8 4 50 | 8 1 7 |
| | MAY . | 21 8 2 | 20 23 29 | | MAY . | { 17 23 12 | 18 4 7 |
| | JUNE . | 19 20 46 | 19 11 48 | | JUNE . | 16 11 56 | 16 10 48 |
| | ○ | { 4 15 8 | 4 19 6 | | JULY . | 16 0 40 | 15 17 41 |
| | JULY . | { 19 9 30 | 19 2 11 | | AUG. . | 14 13 24 | 14 1 54 |
| | AUG. . | 17 22 14 | 17 18 16 | | SEPT. . | 13 2 8 | 12 12 23 |
| | SEPT. . | 16 10 58 | 16 11 19 | | OCT. . | { 12 14 52 | 12 1 46 |
| | OCT. . | 15 23 42 | 16 4 23 | | ○ | { 27 9 14 | 27 14 41 |
| | Nov. . | 14 12 26 | 14 20 31 | | Nov. . | 11 3 36 | 10 18 5 |
| | DEC. . | 14 1 10 | 14 11 3 | | DEC. . | 10 16 20 | 10 12 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 479. g. March. d. h. m. 19 22 28 | | d. h. m. | d. h. m. | A.D. 482. c. March. d. h. m. 19 15 54 | | d. h. m. | d. h. m. |
| | JAN. . | 9 5 5 | 9 8 7 | | JAN. . | 5 20 15 | 5 14 15 |
| | FEB. . | 7 17 49 | 8 2 46 | | FEB. . | { 4 8 59 | 4 2 54 |
| | MAR. . | 9 6 33 | 9 19 12 | | ○ | { 19 3 21 | 19 17 1 |
| | APRIL | 7 19 17 | 8 8 42 | | MAR. . | 5 21 43 | 5 16 29 |
| | MAY . | 7 8 1 | 7 19 18 | | APRIL | 4 10 27 | 4 7 1 |
| | JUNE . | 5 20 45 | 6 3 41 | | MAY . | 3 23 11 | 3 22 18 |
| | JULY . | 5 9 29 | 5 10 53 | | JUNE . | 2 11 55 | 2 13 47 |
| | AUG. . | 3 22 13 | 3 18 2 | | | { 2 0 39 | 2 4 50 |
| | SEPT. . | 2 10 57 | 2 2 7 | | JULY . | { 31 13 23 | 31 18 54 |
| | | { 1 23 41 | 1 12 0 | | ○ | { 15 7 45 | 14 18 27 |
| | OCT. . | { 31 12 25 | 31 0 16 | | AUG. . | { 30 2 7 | 30 7 49 |
| | NOV. . | 30 1 9 | 29 15 2 | | SEPT. . | 28 14 51 | 28 19 46 |
| | DEC. . | 29 13 53 | 29 8 1 | | OCT. . | 28 3 35 | 28 7 8 |
| | | | | | NOV. . | 26 16 19 | 26 18 10 |
| 480. F.E. 19 4 17 | JAN. . | 23 2 37 | 23 2 16 | 483. B. 19 21 43 | DEC. . | 26 5 3 | 26 5 1 |
| | FEB. . | 26 15 21 | 26 20 30 | | JAN. . | 24 17 47 | 24 15 43 |
| | ○ | { 12 9 43 | 12 11 3 | | FEB. . | 23 6 31 | 23 2 25 |
| | MAR. . | { 27 4 6 | 27 13 27 | | MAR. . | 24 19 15 | 24 13 31 |
| | APRIL | 25 16 50 | 26 4 10 | | APRIL | 23 7 59 | 23 1 32 |
| | MAY . | 25 5 34 | 25 16 18 | | MAY . | 22 20 43 | 22 14 53 |
| | JUNE . | 23 18 18 | 24 2 12 | | JUNE . | 21 9 27 | 21 5 34 |
| | JULY . | 23 7 2 | 23 10 42 | | ○ | { 6 3 49 | 6 2 24 |
| | AUG. . | 21 19 46 | 21 18 49 | | JULY . | { 20 22 11 | 20 21 11 |
| | ○ | { 5 14 8 | 5 8 41 | | AUG. . | 19 10 55 | 19 13 2 |
| | SEPT. . | { 20 8 30 | 20 3 26 | | SEPT. . | 17 23 39 | 18 4 26 |
| | OCT. . | 19 21 14 | 19 13 16 | | OCT. . | 17 12 23 | 17 18 57 |
| | NOV. . | 18 9 53 | 18 0 41 | | NOV. . | 16 1 7 | 16 8 20 |
| | DEC. . | 17 22 42 | 17 13 52 | | DEC. . | { 15 13 51 | 15 20 32 |
| | | | | | ○ | { 30 8 13 | 30 6 33 |
| 481. D. 19 10 6 | JAN. . | 16 11 26 | 16 4 42 | 484. A.G. 19 3 32 | JAN. . | 14 2 35 | 14 7 35 |
| | FEB. . | 15 0 10 | 14 20 50 | | FEB. . | 12 15 20 | 12 17 35 |
| | ○ | { 1 13 32 | 2 8 33 | | MAR. . | 13 4 4 | 13 2 48 |
| | MAR. . | { 16 12 54 | 16 18 36 | | APRIL | 11 16 48 | 11 11 52 |
| | APRIL | 15 1 38 | 15 6 10 | | MAY . | 11 5 32 | 10 21 35 |
| | MAY . | 14 14 22 | 14 21 33 | | JUNE . | { 9 18 16 | 9 8 49 |
| | JUNE . | 13 3 6 | 13 11 25 | | ○ | { 24 12 38 | 24 13 56 |
| | JULY . | 12 15 50 | 12 23 20 | | JULY . | 9 7 0 | 8 22 5 |
| | AUG. . | { 11 4 34 | 11 9 48 | | AUG. . | 7 19 44 | 7 13 26 |
| | ○ | { 25 22 56 | 25 10 15 | | SEPT. . | 6 8 28 | 6 6 18 |
| | SEPT. . | 9 17 13 | 9 19 33 | | OCT. . | 5 21 12 | 5 23 45 |
| | OCT. . | 9 6 2 | 9 5 17 | | NOV. . | 4 9 56 | 4 16 42 |
| | NOV. . | 7 18 46 | 7 15 31 | | DEC. . | { 3 22 40 | 4 8 17 |
| | DEC. . | 7 7 30 | 7 2 23 | | ○ | { 18 17 2 | 18 8 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 485. F. March. <i>d. h. m.</i> 19 9 21 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 488. C.B. March. <i>d. h. m.</i> 19 2 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 2 11 25 | 2 21 58 | | JAN. . | 29 15 19 | 29 21 30 |
| | FEB. . | 1 0 9 | 1 9 34 | | FEB. . | 28 4 3 | 28 15 4 |
| | MAR. . | 2 12 53 | 2 19 16 | | MAR. . | 28 16 47 | 29 6 0 |
| | APRIL | { 1 1 37 | 1 3 34 | | ○ | { 12 11 9 | 12 5 0 |
| | | { 30 14 21 | 30 11 13 | | APRIL | { 27 5 31 | 27 17 57 |
| | MAY . | 30 3 5 | 29 19 11 | | MAY . | 26 18 15 | 27 3 20 |
| | ○ | { 13 21 27 | 14 6 43 | | JUNE . | 25 6 59 | 25 11 3 |
| | JUNE . | { 28 15 49 | 28 4 33 | | JULY . | 24 19 43 | 24 18 14 |
| | JULY . | 28 4 33 | 27 16 12 | | AUG. . | 23 8 27 | 23 1 53 |
| | AUG. . | 26 17 17 | 26 6 37 | | SEPT. . | 21 21 11 | 21 10 55 |
| | SEPT. . | 25 6 1 | 24 23 34 | | ○ | { 6 15 33 | 6 20 13 |
| | OCT. . | 24 18 45 | 24 18 8 | | OCT. . | { 21 9 55 | 20 22 3 |
| | NOV. . | 23 7 29 | 23 12 57 | | NOV. . | 19 22 39 | 19 11 34 |
| | ○ | { 8 1 51 | 7 18 39 | | DEC. . | 19 11 23 | 19 3 26 |
| | DEC. . | { 22 20 13 | 23 6 30 | | | | |
| 486. E. 19 15 10 | JAN. . | 21 8 57 | 21 21 46 | 489. A. 19 8 36 | JAN. . | 18 0 7 | 17 20 59 |
| | FEB. . | 19 21 41 | 20 10 16 | | FEB. . | 16 12 51 | 16 15 12 |
| | MAR. . | 21 10 25 | 21 20 12 | | MAR. . | 18 1 35 | 18 8 45 |
| | APRIL | 19 23 9 | 20 4 12 | | ○ | { 1 19 57 | 1 19 12 |
| | MAY . | 19 11 53 | 19 11 9 | | APRIL | { 16 14 19 | 17 0 34 |
| | JUNE . | 18 0 37 | 17 18 4 | | MAY . | 16 3 3 | 16 13 59 |
| | JULY . | 17 13 21 | 17 2 8 | | JUNE . | 14 15 47 | 15 1 1 |
| | AUG. . | 16 2 5 | 15 12 23 | | JULY . | 14 4 31 | 14 10 15 |
| | SEPT. . | 14 14 49 | 14 1 34 | | AUG. . | 12 17 15 | 12 13 37 |
| | OCT. . | 14 3 33 | 13 17 45 | | SEPT. . | { 11 5 59 | 11 3 5 |
| | NOV. . | 12 16 17 | 12 12 20 | | ○ | { 26 0 21 | 25 21 12 |
| | DEC. . | 12 5 1 | 12 7 56 | | OCT. . | 10 18 43 | 10 12 26 |
| | | | | | NOV. . | 9 7 27 | 8 23 7 |
| | | | | | DEC. . | 8 20 11 | 8 11 24 |
| 487. D. 19 20 59 | JAN. . | 10 17 46 | 11 2 50 | 490. G. 19 14 25 | JAN. . | 7 8 56 | 7 1 17 |
| | FEB. . | 9 6 30 | 9 19 31 | | FEB. . | 5 21 40 | 5 16 35 |
| | MAR. . | 10 19 14 | 11 9 13 | | MAR. . | 7 10 24 | 7 8 51 |
| | APRIL | { 9 7 58 | 9 19 56 | | APRIL | 5 23 8 | 6 1 23 |
| | ○ | { 24 2 20 | 23 21 20 | | MAY . | 5 11 52 | 5 17 23 |
| | MAY . | 8 20 42 | 9 4 16 | | JUNE . | 4 0 36 | 4 8 5 |
| | JUNE . | 7 9 26 | 7 11 13 | | JULY . | 3 13 20 | 3 21 2 |
| | JULY . | 6 22 10 | 6 17 54 | | AUG. . | { 2 2 4 | 2 8 24 |
| | AUG. . | 5 10 54 | 5 1 24 | | | { 31 14 43 | 31 18 40 |
| | SEPT. . | 3 23 38 | 3 10 45 | | SEPT. . | 30 3 32 | 30 4 35 |
| | OCT. . | { 3 12 22 | 2 22 43 | | OCT. . | 29 16 16 | 29 14 43 |
| | ○ | { 18 6 44 | 18 12 46 | | NOV. . | 28 5 0 | 28 1 22 |
| | NOV. . | 2 1 6 | 1 13 39 | | DEC. . | 27 17 44 | 27 12 41 |
| | DEC. . | { 1 13 50 | 1 7 13 | | | | |
| | | { 31 2 34 | 31 2 21 | | | | |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 491. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 494. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | 26 6 29 | 26 0 42 | B. | JAN. . | 22 21 39 | 23 8 20 |
| | ○ | 10 0 51 | 10 14 29 | March. | FEB. . | 21 10 23 | 21 18 49 |
| March. | FEB. . | 24 19 13 | 24 18 31 | <i>d. h. m.</i> | MAR. . | 22 23 7 | 23 3 34 |
| <i>d. h. m.</i> | MAR. . | 26 7 57 | 26 3 16 | 19 13 40 | APRIL | 21 11 51 | 21 11 16 |
| 19 20 14 | APRIL | 24 20 41 | 24 17 58 | | MAY . | 21 0 35 | 20 18 47 |
| | MAY . | 24 9 25 | 24 9 19 | | ○ | 4 18 57 | 5 4 8 |
| | JUNE . | 22 22 9 | 23 0 39 | | JUNE . | 19 13 19 | 19 3 12 |
| | JULY . | 22 10 53 | 22 15 24 | | JULY . | 19 2 3 | 18 13 34 |
| | ○ | 6 5 15 | 5 17 42 | | AUG. . | 17 14 47 | 17 2 37 |
| | AUG. . | 20 23 37 | 21 5 10 | | SEPT. . | 16 3 31 | 15 18 28 |
| | SEPT. . | 19 12 21 | 19 17 52 | | OCT. . | 15 16 15 | 15 12 38 |
| | OCT. . | 19 1 5 | 19 5 45 | | NOV. . | 14 4 59 | 14 7 36 |
| | NOV. . | 17 13 49 | 17 17 7 | | ○ | 28 23 21 | 28 17 13 |
| | DEC. . | 17 2 33 | 17 4 6 | | DEC. . | 13 17 43 | 14 2 4 |
| 492. | JAN. . | 15 15 17 | 15 14 47 | 495. | JAN. . | 12 6 27 | 12 18 38 |
| E.D. | ○ | 30 9 39 | 30 18 48 | A. | FEB. . | 10 19 11 | 11 8 29 |
| 19 2 8 | FEB. . | 14 4 1 | 14 1 14 | 19 19 29 | MAR. . | 12 7 55 | 12 19 33 |
| | MAR. . | 14 16 45 | 14 11 47 | | APRIL | 10 20 39 | 11 4 17 |
| | APRIL | 13 5 29 | 12 23 0 | | MAY . | 10 9 23 | 10 11 30 |
| | MAY . | 12 18 13 | 12 11 27 | | ○ | 25 3 45 | 25 6 53 |
| | JUNE . | 11 6 57 | 11 1 21 | | JUNE . | 8 22 7 | 8 18 14 |
| | JULY . | 10 19 41 | 10 16 34 | | JULY . | 8 10 51 | 8 1 35 |
| | ○ | 25 14 8 | 25 9 43 | | AUG. . | 6 23 35 | 6 10 39 |
| | AUG. . | 9 8 25 | 9 8 31 | | SEPT. . | 5 12 19 | 4 22 22 |
| | SEPT. . | 7 21 9 | 8 0 30 | | OCT. . | 5 1 3 | 4 13 10 |
| | OCT. . | 7 9 53 | 7 15 48 | | NOV. . | 3 13 47 | 3 6 47 |
| | NOV. . | 5 22 37 | 6 6 8 | | ○ | 18 8 9 | 18 8 50 |
| | DEC. . | 5 11 21 | 5 13 59 | | DEC. . | 3 2 31 | 3 2 7 |
| 493. | JAN. . | 4 0 6 | 4 6 39 | 496. | JAN. . | 1 15 16 | 1 21 34 |
| C. | ○ | 18 18 23 | 18 18 17 | G.F. | ○ | 31 4 0 | 31 15 23 |
| 19 7 32 | FEB. . | 2 12 50 | 2 17 2 | | FEB. . | 29 16 44 | 1 6 39 |
| | MAR. . | 4 1 34 | 4 2 23 | 19 1 13 | MAR. . | 30 5 23 | 30 18 43 |
| | APRIL | 2 14 18 | 2 11 12 | | APRIL | 28 18 12 | 29 4 4 |
| | MAY . | 2 8 2 | 1 20 15 | | ○ | 13 12 34 | 13 7 43 |
| | ○ | 31 15 46 | 31 6 26 | | MAY . | 23 6 56 | 23 11 34 |
| | JUNE . | 30 4 30 | 29 13 32 | | JUNE . | 26 19 40 | 26 13 16 |
| | ○ | 14 22 52 | 15 2 35 | | JULY . | 26 8 24 | 26 1 13 |
| | JULY . | 29 17 14 | 29 8 54 | | AUG. . | 24 21 8 | 24 9 42 |
| | AUG. . | 28 5 53 | 28 1 14 | | SEPT. . | 23 9 52 | 22 20 23 |
| | SEPT. . | 26 18 42 | 26 13 44 | | OCT. . | 22 22 36 | 22 9 54 |
| | OCT. . | 26 7 26 | 26 12 20 | | ○ | 6 16 53 | 6 23 19 |
| | NOV. . | 24 20 10 | 25 4 55 | | NOV. . | 21 11 20 | 21 2 14 |
| | DEC. . | 24 8 54 | 24 19 41 | | DEC. . | 21 0 4 | 20 20 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|--------------|------------------------------------|------------------------------------|---|--------------|------------------------------------|------------------------------------|
| A.D. 497. E. March. d. h. m. 19 7 7 | | d. h. m. | d. h. m. | A.D. 500. B.A. March. d. h. m. 19 0 34 | | d. h. m. | d. h. m. |
| | JAN. . | 19 12 48 | 19 15 54 | | JAN. . | 17 3 58 | 16 22 55 |
| | FEB. . | 18 1 32 | 18 10 17 | | FEB. . | 15 16 42 | 15 11 2 |
| | MAR. . | 19 14 16 | 20 2 33 | | ○ { 1 11 4 | 2 0 58 | |
| | APRIL . | 18 3 0 | 18 15 55 | | MAR. . | { 16 5 26 | 16 0 0 |
| | MAY . | 17 15 44 | 18 2 30 | | APRIL . | 14 18 10 | 14 13 59 |
| | JUNE . | 16 4 23 | 16 10 59 | | MAY . | 14 6 54 | 14 4 52 |
| | JULY . | 15 17 12 | 15 18 24 | | JUNE . | 12 19 38 | 12 20 18 |
| | AUG. . | 14 5 56 | 14 1 51 | | JULY . | 12 8 22 | 12 11 27 |
| | SEPT. . | 12 18 40 | 12 10 16 | | AUG. . | { 10 21 6 | 11 1 57 |
| | OCT. . | 12 7 24 | 11 20 25 | | ○ { 25 15 28 | 25 2 25 | |
| | NOV. . | 10 20 8 | 10 8 45 | | SEPT. . | 9 9 50 | 9 15 28 |
| | DEC. . | 10 8 52 | 9 23 26 | | OCT. . | 8 22 34 | 9 4 1 |
| | | | | | NOV. . | 7 11 18 | 7 15 51 |
| | | | | | DEC. . | 7 0 2 | 7 8 7 |
| 498. D. 19 12 56 | JAN. . | 8 21 37 | 8 16 5 | 501. G. 19 6 22 | JAN. . | 5 12 46 | 5 18 55 |
| | FEB. . | 7 10 21 | 7 9 54 | | FEB. . | 4 1 31 | 4 0 18 |
| | MAR. . | { 8 23 5 | 9 3 44 | | MAR. . | 5 14 15 | 5 10 31 |
| | ○ { 23 17 27 | 23 19 5 | | | APRIL . | 4 2 59 | 3 21 2 |
| | APRIL . | 7 11 49 | 7 20 23 | | MAY . | 3 15 43 | 3 8 38 |
| | MAY . | 7 0 33 | 7 11 0 | | JUNE . | 2 4 27 | 1 21 31 |
| | JUNE . | 5 13 17 | 5 23 15 | | JULY . | { 1 17 11 | 1 12 5 |
| | JULY . | 5 2 1 | 5 9 24 | | ○ { 81 5 55 | 81 8 51 | |
| | AUG. . | 3 14 45 | 3 18 17 | | AUG. . | 29 18 39 | 29 20 7 |
| | SEPT. . | { 2 3 29 | 2 2 50 | | SEPT. . | 28 7 23 | 28 12 8 |
| | ○ { 16 21 51 | 16 15 54 | | | OCT. . | 27 20 7 | 28 8 14 |
| | OCT. . | { 1 16 13 | 1 11 52 | | NOV. . | 26 8 51 | 26 17 2 |
| | ○ { 31 4 57 | 30 21 58 | | | DEC. . | 25 21 35 | 26 5 24 |
| | NOV. . | 29 17 41 | 29 9 28 | | | | |
| | DEC. . | 29 6 25 | 28 22 26 | | | | |
| 499. C. 19 18 45 | JAN. . | 27 19 10 | 27 12 50 | 502. F. 19 12 11 | ○ { 9 15 58 | 9 12 52 | |
| | FEB. . | 26 7 54 | 26 4 24 | | JAN. . | { 24 10 20 | 24 16 21 |
| | ○ { 13 2 16 | 13 11 42 | | | FEB. . | 22 23 4 | 23 2 0 |
| | MAR. . | { 27 20 38 | 27 20 38 | | MAR. . | 24 11 48 | 24 10 47 |
| | APRIL . | 26 9 22 | 26 12 51 | | APRIL . | 23 0 32 | 22 19 22 |
| | MAY . | 25 22 6 | 26 4 13 | | MAY . | 22 13 16 | 22 4 41 |
| | JUNE . | 24 10 50 | 24 18 8 | | JUNE . | 21 2 0 | 20 15 38 |
| | JULY . | 23 23 34 | 24 6 27 | | ○ { 5 20 22 | 6 2 17 | |
| | AUG. . | 22 12 18 | 22 17 27 | | { 20 14 44 | 20 4 50 | |
| | ○ { 6 6 40 | 5 17 38 | | | AUG. . | 19 3 28 | 18 20 19 |
| | SEPT. . | { 21 1 2 | 21 3 44 | | SEPT. . | 17 16 12 | 17 18 38 |
| | OCT. . | 20 13 46 | 20 13 54 | | OCT. . | 17 4 56 | 17 7 30 |
| | NOV. . | 19 2 30 | 19 0 25 | | NOV. . | 15 17 40 | 16 0 55 |
| | DEC. . | 18 15 14 | 18 11 24 | | DEC. . | { 15 6 24 | 15 16 50 |
| | | | | | ○ { 30 0 46 | 29 16 34 | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 503. E. March. d. h. m. 19 18 0 | JAN. . | d. h. m. 13 19 8 | d. h. m. 14 6 35 | A.D. 506. A. March. d. h. m. 19 11 27 | JAN. . | d. h. m. 10 10 18 | d. h. m. 10 10 14 |
| | FEB. . | 12 7 52 | 12 18 1 | | FEB. . | 8 23 2 | 9 5 5 |
| | MAR. . | 13 20 36 | 14 3 25 | | MAR. . | 10 11 46 | 10 22 25 |
| | APRIL | 12 9 20 | 12 11 22 | | APRIL | { 9 0 30 | 9 13 11 |
| | MAY . | 11 22 4 | 11 18 41 | | ○ | { 23 18 52 | 23 12 6 |
| | JUNE . | { 10 10 48 | 10 2 25 | | MAY . | 8 13 14 | 9 1 6 |
| | ○ | { 25 5 10 | 25 13 35 | | JUNE . | 7 1 58 | 7 10 34 |
| | JULY . | 9 23 32 | 9 11 38 | | JULY . | 6 14 42 | 6 18 29 |
| | AUG. . | 8 12 16 | 7 23 17 | | AUG. . | 5 3 26 | 5 1 56 |
| | SEPT. . | 7 1 0 | 6 13 50 | | SEPT. . | 3 16 10 | 3 9 55 |
| | OCT. . | 6 13 44 | 6 7 4 | | OCT. . | { 3 4 54 | 2 19 17 |
| | NOV. . | 5 2 28 | 5 1 57 | | ○ | { 17 23 16 | 13 4 7 |
| | DEC. . | { 4 15 12 | 4 21 1 | | NOV. . | 1 17 38 | { 1 6 35 |
| | ○ | { 19 9 31 | 19 3 29 | | DEC. . | { 1 6 22 | { 30 20 5 |
| | | | | | | { 30 19 6 | 30 11 41 |
| 504. D.C. 18 23 40 | JAN. . | 3 3 57 | 3 14 46 | 507. G. 19 17 15 | JAN. . | 29 7 51 | 29 4 50 |
| | FEB. . | 1 16 41 | 2 6 2 | | FEB. . | 27 20 35 | 27 22 34 |
| | MAR. . | { 2 5 25 | 2 18 22 | | MAR. . | 29 9 19 | 29 15 45 |
| | APRIL | { 31 18 9 | { 1 4 4 | | ○ | { 13 3 41 | 13 2 58 |
| | MAY . | 30 6 53 | 30 11 49 | | APRIL | { 27 22 3 | 28 7 23 |
| | JUNE . | 29 19 37 | 29 13 36 | | MAY . | 27 10 47 | 27 20 49 |
| | JULY . | 28 8 21 | 28 1 29 | | JUNE . | 25 23 31 | 26 8 5 |
| | AUG. . | 27 21 5 | 27 9 35 | | JULY . | 25 12 15 | 25 17 40 |
| | SEPT. . | 26 9 49 | 25 19 56 | | AUG. . | 24 0 59 | 24 2 29 |
| | OCT. . | 24 22 33 | 24 9 15 | | SEPT. . | 22 13 43 | 22 11 24 |
| | NOV. . | 24 11 17 | 24 1 37 | | ○ | { 7 8 5 | 7 4 42 |
| | DEC. . | 23 0 1 | 22 20 18 | | OCT. . | { 22 2 27 | 21 21 6 |
| | | 22 12 45 | 22 15 55 | | NOV. . | 20 15 11 | 20 7 57 |
| 505. H. 19 5 38 | JAN. . | 21 1 30 | 21 10 45 | 508. F.E. 18 23 4 | DEC. . | 20 3 55 | 19 20 8 |
| | FEB. . | 19 14 14 | 20 3 19 | | JAN. . | 13 16 40 | 13 9 40 |
| | MAR. . | 21 2 53 | 21 16 52 | | FEB. . | 17 5 24 | 17 0 23 |
| | APRIL | 19 15 42 | 20 3 26 | | MAR. . | 17 13 8 | 17 16 4 |
| | ○ | { 4 10 4 | 4 4 10 | | APRIL | 16 6 52 | 16 8 10 |
| | MAY . | { 19 4 26 | 19 11 42 | | MAY . | 15 19 36 | 15 23 56 |
| | JUNE . | 17 17 10 | 17 18 40 | | JUNE . | 14 8 20 | 14 14 40 |
| | JULY . | 17 5 54 | 17 1 23 | | JULY . | 13 21 4 | 14 3 57 |
| | AUG. . | 15 18 33 | 15 9 10 | | AUG. . | 12 9 43 | 12 15 43 |
| | SEPT. . | 14 7 22 | 13 18 43 | | SEPT. . | 10 22 32 | 11 2 38 |
| | OCT. . | { 13 20 6 | 13 6 52 | | OCT. . | 10 11 16 | 10 13 4 |
| | ○ | { 23 14 23 | 23 21 12 | | NOV. . | 9 0 0 | 8 23 33 |
| | NOV. . | 12 8 50 | 11 21 52 | | DEC. . | 8 12 44 | 8 10 21 |
| | DEC. . | 11 21 34 | 11 15 20 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New M on. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 509. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 512. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 7 1 28 | 6 21 29 | A.G. March. | JAN. . | 4 16 38 | 5 4 16 |
| March. | FEB. . | { 5 14 12 | 5 9 4 | <i>d. h. m.</i> | FEB. . | 8 5 22 | 8 16 49 |
| <i>d. h. m.</i> | O | { 20 8 34 | 20 22 27 | 18 22 20 | MAR. . | 8 18 6 | 4 3 8 |
| 19 4 58 | MAR. . | 7 2 56 | 6 21 17 | | APRIL | 2 6 50 | 2 11 29 |
| | APRIL | 5 15 40 | 5 10 27 | | MAY . | { 1 19 34 | 1 18 50 |
| | MAY . | 5 4 24 | 5 0 39 | | O | { 31 8 18 | 31 2 7 |
| | JUNE . | 3 17 8 | 3 15 45 | | JUNE . | { 15 2 40 | 15 10 52 |
| | JULY . | 3 5 52 | 3 7 9 | | JULY . | { 29 21 2 | 29 10 28 |
| | | { 1 18 36 | 1 22 15 | | AUG. . | 29 9 46 | 23 20 42 |
| | AUG. O | { 16 12 58 | 16 1 21 | | SEPT. . | 27 22 30 | 27 9 51 |
| | | { 31 7 20 | 31 12 33 | | OCT. . | 26 11 14 | 26 1 55 |
| | SEPT. . | 29 20 4 | 30 1 53 | | NOV. . | 25 23 58 | 25 20 15 |
| | OCT. . | 29 8 48 | 29 14 19 | | DEC. . | 24 12 42 | 24 15 34 |
| | NOV. . | 27 21 32 | 28 2 1 | | O | { 9 7 4 | 9 2 7 |
| | DEC. . | 27 10 16 | 27 13 3 | | DEC. . | { 24 1 26 | 24 10 18 |
| 510. | JAN. . | 25 23 1 | 25 23 31 | 513. | JAN. . | 22 14 11 | 23 2 50 |
| C. | O | { 9 17 23 | 10 1 3 | F. | FEB. . | 21 2 55 | 21 16 36 |
| 19 10 42 | FEB. . | { 24 11 45 | 24 9 32 | 19 4 8 | MAR. . | 22 15 39 | 23 3 27 |
| | MAR. . | 26 0 29 | 25 19 33 | | APRIL | 21 4 23 | 21 11 58 |
| | APRIL | 24 13 13 | 24 6 13 | | MAY . | 20 17 7 | 20 19 1 |
| | MAY . | 24 1 57 | 23 18 12 | | O | { 4 11 29 | 4 13 19 |
| | JUNE . | 22 14 41 | 22 7 53 | | JUNE . | { 19 5 51 | 19 1 40 |
| | JULY . | 22 3 25 | 21 23 9 | | JULY . | 18 18 35 | 18 9 8 |
| | O | { 5 21 47 | 5 17 27 | | AUG. . | 17 7 19 | 16 18 13 |
| | AUG. . | { 20 16 9 | 20 15 27 | | SEPT. . | 15 20 8 | 15 6 4 |
| | SEPT. . | 19 4 53 | 19 7 57 | | OCT. . | 15 8 47 | 14 21 1 |
| | OCT. . | 18 17 37 | 18 23 51 | | NOV. . | { 13 21 31 | 13 14 43 |
| | NOV. . | 17 6 21 | 17 14 35 | | O | { 23 15 53 | 23 17 43 |
| | DEC. . | 16 19 5 | 17 3 43 | | DEC. . | 13 10 15 | 13 10 4 |
| 511. | JAN. . | { 15 7 49 | 15 15 26 | 514. | JAN. . | 11 22 59 | 12 5 27 |
| B. | O | { 30 2 11 | 30 2 0 | E. | FEB. . | 10 11 48 | 10 23 15 |
| 19 16 31 | FEB. . | 13 20 33 | 14 1 34 | 19 9 57 | MAR. . | 12 0 27 | 12 14 17 |
| | MAR. . | 15 9 17 | 15 10 30 | | APRIL | 10 13 11 | 11 2 13 |
| | APRIL | 13 22 1 | 13 18 52 | | MAY . | { 10 1 55 | 10 11 23 |
| | MAY . | 13 10 45 | 13 3 29 | | O | { 24 20 17 | 24 14 24 |
| | JUNE . | 11 23 29 | 11 13 23 | | JUNE . | 8 14 39 | 8 18 58 |
| | JULY . | { 11 12 13 | 11 1 19 | | JULY . | 8 3 23 | 8 1 43 |
| | O | { 26 6 35 | 26 10 6 | | AUG. . | 6 16 7 | 6 9 0 |
| | AUG. . | 10 0 57 | 9 15 43 | | SEPT. . | 5 4 51 | 4 17 37 |
| | SEPT. . | 8 13 41 | 8 8 20 | | OCT. . | 4 17 35 | 4 4 31 |
| | OCT. . | 8 2 25 | 8 2 17 | | NOV. . | { 3 6 19 | 2 18 9 |
| | NOV. . | 6 15 9 | 6 20 20 | | O | { 18 0 41 | 18 7 59 |
| | DEC. . | 6 3 53 | 6 13 13 | | DEC. . | 2 19 8 | 2 10 26 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 515. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 518. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | | | | G. | | | |
| | JAN. . | { 1 7 48 | 1 4 40 | | JAN. . | 27 11 42 | 27 7 29 |
| | | { 30 20 32 | 30 23 36 | | FEB. . | 26 0 26 | 25 19 5 |
| March. | FEB. . | ... | ... | March. | ○ | { 12 18 48 | 13 8 46 |
| <i>d. h. m.</i> | | | | <i>d. h. m.</i> | | | |
| 19 15 46 | MAR. . | { 1 9 16 | 1 17 43 | 19 9 13 | MAR. . | { 27 13 10 | 27 7 26 |
| | | { 30 22 0 | 31 9 44 | | APRIL | 26 1 54 | 25 20 52 |
| | APRIL | 29 10 44 | 29 23 1 | | MAY . | 25 14 38 | 25 11 22 |
| | MAY . | 23 23 28 | 29 9 40 | | JUNE . | 24 3 22 | 24 2 40 |
| | JUNE . | 27 12 12 | 27 18 19 | | JULY . | 23 16 6 | 23 18 8 |
| | JULY . | 27 0 56 | 27 2 1 | | AUG. . | 22 4 50 | 22 9 7 |
| | AUG. . | 25 13 40 | 25 9 47 | | ○ | { 5 23 12 | 5 10 15 |
| | SEPT. . | 24 2 24 | 23 18 33 | | SEPT. . | { 20 17 34 | 20 23 16 |
| | OCT. . | 23 15 8 | 23 4 57 | | OCT. . | 20 6 18 | 20 12 24 |
| | NOV. . | 22 3 52 | 21 17 22 | | NOV. . | 18 19 2 | 19 0 39 |
| | DEC. . | 21 16 36 | 21 7 51 | | DEC. . | 18 7 46 | 18 12 6 |
| 516. | JAN. . | 20 5 20 | 20 0 6 | | | | |
| C.B. | FEB. . | 18 18 4 | 18 17 26 | 519. | JAN. . | 16 20 30 | 16 22 46 |
| 18 21 35 | MAR. . | 19 6 49 | 19 10 49 | F. | FEB. . | 15 9 14 | 15 8 46 |
| | ○ | { 3 1 11 | 3 2 59 | 19 15 1 | MAR. . | 16 21 59 | 16 18 29 |
| | APRIL | { 17 19 33 | 18 3 12 | | APRIL | 15 10 43 | 15 4 28 |
| | MAY . | 17 8 17 | 17 17 45 | | MAY . | 14 23 27 | 14 15 20 |
| | JUNE . | 15 21 1 | 16 6 10 | | JUNE . | 13 12 11 | 13 4 9 |
| | JULY . | 15 9 45 | 15 16 40 | | JULY . | 13 0 55 | 12 18 39 |
| | AUG. . | 13 22 29 | 14 1 57 | | AUG. . | 11 13 39 | 11 10 38 |
| | SEPT. . | { 12 11 13 | 12 10 53 | | SEPT. . | 10 2 23 | 10 3 22 |
| | ○ | { 27 5 35 | 26 23 18 | | OCT. . | 9 15 7 | 9 19 56 |
| | OCT. . | 11 23 57 | 11 20 25 | | NOV. . | 8 3 51 | 8 11 34 |
| | NOV. . | 10 12 41 | 10 6 48 | | DEC. . | 7 16 35 | 8 1 45 |
| | DEC. . | 10 1 25 | 9 18 19 | | | | |
| 517. | JAN. . | 8 14 9 | 8 7 0 | 520. | JAN. . | { 6 5 19 | 6 14 13 |
| A. | FEB. . | 7 2 53 | 6 20 53 | E.D. | ○ | { 20 23 41 | 20 20 46 |
| 19 3 24 | MAR. . | { 8 15 37 | 8 11 51 | | FEB. . | 4 18 3 | 5 0 58 |
| | ○ | { 23 9 59 | 23 19 40 | 18 20 50 | MAR. . | 5 6 47 | 5 10 16 |
| | APRIL | 7 4 21 | 7 3 32 | | APRIL | 3 19 31 | 3 18 37 |
| | MAY . | 6 17 5 | 6 19 24 | | MAY . | 3 8 15 | 3 2 48 |
| | JUNE . | 5 5 49 | 5 10 42 | | JUNE . | 1 20 59 | { 1 11 46 |
| | JULY . | 4 18 33 | 5 0 52 | | | { 1 9 43 | { 30 22 29 |
| | AUG. . | 3 7 17 | 3 13 37 | | JULY ○ | { 16 4 5 | 16 9 38 |
| | SEPT. . | { 1 20 1 | 2 1 11 | | | { 30 22 27 | 30 11 41 |
| | ○ | { 16 14 23 | 16 1 11 | | AUG. . | 29 11 11 | 29 3 21 |
| | OCT. . | { 1 8 45 | 1 12 1 | | SEPT. . | 27 23 55 | 27 20 56 |
| | | { 30 21 29 | 30 22 39 | | OCT. . | 27 12 39 | 27 15 18 |
| | NOV. . | 29 10 13 | 29 9 23 | | NOV. . | 26 1 23 | 26 9 8 |
| | DEC. . | 28 22 57 | 28 20 19 | | DEC. . | 25 14 7 | 26 1 18 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-------------------------------------|--|--|---|--|---|---|--|
| A.D. 521. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 524. G.F. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d h. m.</i> 19 2 39 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | { 9 8 30 { 24 2 52 22 15 36 24 4 20 22 17 4 22 5 48 20 18 32 { 5 12 54 { 20 7 16 18 20 0 17 8 44 16 21 28 15 10 12 { 14 22 56 { 29 17 18 | 9 0 57 24 15 5 23 2 20 24 11 27 22 19 4 22 2 8 20 9 41 5 20 31 19 18 50 18 6 33 16 21 15 16 14 42 15 9 49 15 5 6 29 12 19 | 18 20 5 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 21 18 2 20 6 46 20 19 30 19 8 14 { 4 2 36 18 20 58 17 9 42 16 22 26 15 11 10 13 23 54 { 13 12 38 28 7 0 12 1 22 11 14 6 | 21 18 3 20 12 34 21 5 37 19 20 15 3 19 40 19 8 10 17 17 47 17 1 58 15 9 45 18 18 7 18 3 48 28 12 4 11 15 14 11 4 39 |
| 522. B. | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 13 11 41 12 0 25 13 13 9 12 1 53 11 14 37 10 3 21 9 16 5 8 4 49 6 17 33 6 6 17 4 19 1 4 7 45 | 13 22 56 12 14 8 14 2 18 12 11 47 11 19 22 10 2 3 9 8 57 7 17 9 6 3 39 5 17 6 4 9 35 4 4 18 | 19 1 54 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 10 2 50 8 15 34 10 4 18 { 8 17 2 23 11 24 8 5 46 6 18 30 6 7 14 4 19 58 3 8 42 { 2 21 26 17 15 48 1 10 10 30 22 54 30 11 38 | 9 19 55 8 12 33 10 5 47 8 22 36 23 10 37 8 14 4 7 3 35 6 15 7 5 1 9 3 10 27 2 19 49 17 12 18 1 5 52 30 16 50 30 4 51 |
| 523. A. | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 2 20 29 1 9 13 2 21 57 { 1 10 41 { 30 23 25 { 15 17 47 { 30 12 9 29 0 53 28 13 37 27 2 21 25 15 5 25 3 49 { 8 22 11 { 23 16 33 23 5 17 | 2 23 50 1 18 32 3 10 57 2 0 21 1 10 49 15 10 55 30 19 4 29 2 7 28 9 5 26 17 2 25 2 51 24 15 9 9 5 42 23 6 9 22 23 25 | 19 7 43 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 29 0 23 27 13 7 29 1 51 27 14 35 27 3 19 25 16 3 25 4 47 23 17 31 22 6 15 21 18 59 20 7 43 19 20 27 | 23 17 56 27 8 5 28 23 10 27 14 49 27 6 24 25 21 15 25 10 55 23 23 18 22 10 43 21 21 39 20 8 27 19 19 19 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|-----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 527. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 530. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. | JAN. . | 18 9 12 | 18 6 14 | March. | JAN. . | 15 0 22 | 15 12 44 |
| <i>d. h. m.</i> | FEB. . | 16 21 56 | 16 17 20 | <i>d. h. m.</i> | FEB. . | 13 13 6 | 14 1 11 |
| 19 13 32 | ○ | { 3 16 18 | 4 6 14 | 19 6 58 | MAR.. | 15 1 50 | 15 11 10 |
| | MAR.. | { 18 10 40 | 18 4 58 | | APRIL | 13 14 34 | 13 19 17 |
| | APRIL | 16 23 24 | 16 17 32 | | MAY . | 13 3 18 | 13 2 22 |
| | MAY . | 16 12 8 | 16 7 18 | | JUNE . | 11 16 2 | 11 9 27 |
| | JUNE . | 15 0 52 | 14 22 10 | | JULY . | 11 4 46 | 10 17 39 |
| | JULY . | 14 13 36 | 14 13 42 | | AUG. . | 9 17 30 | 9 4 0 |
| | AUG. . | { 13 2 20 | 13 5 12 | | SEPT. . | 8 6 14 | 7 17 15 |
| | ○ | { 27 20 42 | 27 9 11 | | OCT. . | 7 18 58 | 7 9 30 |
| | SEPT. . | 11 15 4 | 11 20 5 | | NOV. . | 6 7 42 | 6 4 4 |
| | OCT. . | 11 3 48 | 11 10 2 | | DEC. . | { 5 20 26 | 5 23 34 |
| | NOV. . | 9 16 32 | 9 22 58 | | ○ | { 20 14 48 | 20 11 2 |
| | DEC. . | 9 5 16 | 9 10 56 | | | | |
| 528. B.A. | JAN. . | 7 18 0 | 7 21 57 | 531. E. | JAN. . | 4 9 10 | 4 18 19 |
| 18 19 21 | FEB. . | { 6 6 44 | 6 8 8 | 19 12 47 | FEB. . | 2 21 54 | 3 10 54 |
| | ○ | { 21 1 6 | 21 10 0 | | MAR.. | 4 10 38 | 5 0 32 |
| | MAR.. | 6 19 28 | 6 17 42 | | APRIL | 2 23 22 | 3 11 12 |
| | APRIL | 5 8 12 | 5 3 12 | | MAY . | 2 12 6 | 2 19 31 |
| | MAY . | 4 20 56 | 4 13 21 | | | { 1 0 50 | 1 2 28 |
| | JUNE . | 3 9 40 | 3 0 58 | | JUNE . | { 15 19 12 | 15 19 45 |
| | JULY . | 2 22 24 | 2 14 28 | | ○ | { 30 13 34 | 30 9 6 |
| | | { 1 11 8 | 1 5 50 | | JULY . | 30 2 18 | 29 16 35 |
| | AUG. ○ | { 16 5 30 | 16 1 15 | | AUG. . | 28 15 2 | 28 1 55 |
| | | { 30 23 52 | 30 22 29 | | SEPT. . | 27 3 46 | 26 13 55 |
| | SEPT. . | 29 12 36 | 29 15 30 | | OCT. . | 26 16 30 | 26 5 0 |
| | OCT. . | 29 1 20 | 29 7 58 | | NOV. . | 25 5 14 | 24 22 43 |
| | NOV. . | 27 14 4 | 27 23 8 | | ○ | { 9 23 36 | 10 2 44 |
| | DEC. . | 27 2 48 | 27 12 33 | | DEC. . | { 24 17 58 | 24 18 2 |
| 529. C. | JAN. . | 25 15 33 | 26 0 8 | 532. D.C. | JAN. . | 23 6 43 | 23 13 17 |
| 19 1 10 | ○ | { 9 9 55 | 9 9 37 | 18 18 36 | FEB. . | 21 19 27 | 22 6 54 |
| | FEB. . | { 24 4 17 | 24 9 58 | | MAR.. | 22 8 11 | 22 21 45 |
| | MAR.. | 25 17 1 | 25 18 31 | | APRIL | 20 20 55 | 21 9 35 |
| | APRIL | 24 5 45 | 24 2 28 | | MAY . | 20 9 39 | 20 18 50 |
| | MAY . | 23 18 29 | 23 10 44 | | ○ | { 4 4 1 | 3 21 2 |
| | JUNE . | 22 7 13 | 21 20 21 | | JUNE . | { 18 22 23 | 19 2 21 |
| | JULY . | 21 19 57 | 21 8 13 | | JULY . | 18 11 7 | 18 9 20 |
| | ○ | { 5 14 19 | 5 17 42 | | AUG. . | 16 23 51 | 16 16 49 |
| | AUG. . | { 20 8 41 | 19 22 45 | | SEPT. . | 15 12 35 | 15 1 44 |
| | SEPT. . | 18 21 25 | 18 15 36 | | OCT. . | 15 1 19 | 14 12 50 |
| | OCT. . | 18 10 9 | 18 9 56 | | NOV. . | { 13 14 3 | 13 2 31 |
| | NOV. . | 16 22 53 | 17 4 24 | | ○ | { 28 8 25 | 28 16 42 |
| | DEC. . | 16 11 37 | 16 21 40 | | DEC. . | 13 2 47 | 12 18 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 533. B. March. d. h. m. 19 0 25 | | d. h. m. | d. h. m. | A.D. 536. F.E. March. d. h. m. 18 17 51 | | d. h. m. | d. h. m. |
| | JAN. . | 11 15 31 | 11 12 37 | | JAN. . | 9 6 42 | 9 5 11 |
| | FEB. . | 10 4 15 | 10 7 10 | | FEB. . | 7 19 26 | 7 15 59 |
| | MAR. . | 11 17 0 | 12 0 56 | | MAR. . | { 8 8 10 | 8 3 1 |
| | APRIL | 10 5 44 | 10 16 46 | | ○ | { 23 2 32 | 23 16 24 |
| | MAY . | 9 18 28 | 10 6 1 | | APRIL | 6 20 54 | 6 14 45 |
| | JUNE . | 8 7 12 | 8 16 46 | | MAY . | 6 9 38 | 6 3 39 |
| | JULY . | 7 19 56 | 8 1 40 | | JUNE . | 4 22 22 | 4 17 53 |
| | AUG. . | 6 8 40 | 6 9 41 | | JULY . | 4 11 6 | 4 9 9 |
| | SEPT. . | 4 21 24 | 4 17 53 | | AUG. . | 2 23 50 | 3 0 58 |
| | OCT. . | 4 10 8 | 4 3 0 | | SEPT. . | { 1 12 34 | 1 16 24 |
| | NOV. . | 2 22 52 | 2 13 37 | | ○ | { 16 6 56 | 15 18 15 |
| | DEC. . | { 2 11 36 | 2 2 3 | | OCT. . | { 1 1 18 | 1 7 9 |
| | | { ... | 31 16 17 | | NOV. . | { 30 14 2 | 30 20 52 |
| 534. A. | JAN. . | { 1 0 20 | ... | | DEC. . | { 29 2 46 | 29 9 28 |
| | FEB. . | { 30 13 4 | 30 8 2 | | | { 28 15 30 | 28 21 0 |
| | | ... | ... | | | | |
| | MAR. . | { 1 1 48 | 1 0 50 | 537. D. | JAN. . | 27 4 14 | 27 7 30 |
| 19 6 14 | | { 30 14 32 | 30 17 45 | | FEB. . | 25 16 58 | 25 17 8 |
| | ○ | { 14 8 54 | 14 10 46 | 18 23 40 | MAR. . | 27 5 42 | 27 2 19 |
| | APRIL | { 29 3 16 | 29 9 52 | | APRIL | 25 18 26 | 25 11 48 |
| | MAY . | 28 16 0 | 29 0 25 | | MAY . | 25 7 10 | 24 22 23 |
| | JUNE . | 27 4 44 | 27 13 3 | | JUNE . | 23 19 54 | 23 10 48 |
| | JULY . | 26 17 28 | 26 23 57 | | JULY . | 23 8 38 | 23 1 17 |
| | AUG. . | 25 6 12 | 25 9 45 | | AUG. . | 21 21 22 | 21 17 31 |
| | SEPT. . | 23 18 56 | 23 19 14 | | SEPT. . | 20 10 6 | 20 10 41 |
| | ○ | { 8 13 18 | 8 6 48 | | OCT. . | 19 22 50 | 20 8 49 |
| | OCT. . | { 23 7 40 | 23 5 6 | | NOV. . | 18 11 34 | 18 19 57 |
| | NOV. . | 21 20 24 | 21 15 41 | | DEC. . | 18 0 18 | 18 10 25 |
| | DEC. . | 21 9 8 | 21 3 7 | | | | |
| 535. G. | JAN. . | 19 21 52 | 19 15 30 | 538. C. | JAN. . | { 16 18 3 | 16 22 55 |
| | FEB. . | 18 10 36 | 18 4 50 | | ○ | { 31 7 25 | 31 4 34 |
| 19 12 3 | MAR. . | 19 23 21 | 19 19 10 | | FEB. . | { 15 1 47 | 15 9 29 |
| | ○ | { 3 17 43 | 4 3 30 | 19 5 29 | MAR. . | { 16 14 31 | 16 18 26 |
| | APRIL | { 18 12 5 | 18 10 20 | | APRIL | { 15 3 15 | 15 2 23 |
| | MAY . | 18 0 49 | 18 1 54 | | MAY . | { 14 15 59 | 14 10 11 |
| | JUNE . | 16 13 33 | 16 17 13 | | JUNE . | { 13 4 43 | 12 18 51 |
| | JULY . | 16 2 17 | 16 7 39 | | JULY . | { 12 17 27 | 12 5 28 |
| | AUG. . | 14 15 1 | 14 20 54 | | ○ | { 27 11 49 | 27 17 5 |
| | SEPT. . | { 13 3 45 | 13 9 3 | | AUG. . | { 11 6 11 | 10 18 39 |
| | ○ | { 27 22 7 | 27 8 53 | | SEPT. . | { 9 18 55 | 9 10 30 |
| | OCT. . | 12 16 29 | 12 20 26 | | OCT. . | { 9 7 39 | 9 4 25 |
| | NOV. . | 11 5 13 | 11 7 28 | | NOV. . | { 7 20 28 | 7 28 12 |
| | DEC. . | 10 17 57 | 10 18 21 | | DEC. . | { 7 9 7 | 7 17 23 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 539. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 542. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | { 5 21 51 | 6 9 48 | E. March. | JAN. . | 2 13 1 | 2 7 32 |
| March. | ○ | { 20 16 13 | 20 9 19 | <i>d. h. m.</i> | FEB. . | 1 1 45 | 1 1 45 |
| <i>d. h. m.</i> | FEB. . | 4 10 35 | 4 23 27 | 19 4 44 | MAR. . | 2 14 29 | 2 19 52 |
| 19 11 17 | MAR. . | 5 23 19 | 6 10 31 | | APRIL | { 1 3 13 | 1 12 39 |
| | APRIL | 4 12 3 | 4 19 20 | | ○ | { 30 15 57 | 1 3 10 |
| | MAY . | 4 0 47 | 4 2 41 | | ○ | { 15 10 19 | 15 2 54 |
| | JUNE . | 2 13 31 | 2 9 31 | | MAY . | { 30 4 41 | 30 15 10 |
| | | 2 2 15 | 1 16 59 | | JUNE . | 28 17 25 | 29 0 59 |
| | JULY ○ | { 16 20 37 | 17 3 25 | | JULY . | 28 6 9 | 28 9 30 |
| | | { 31 14 59 | 31 2 9 | | AUG. . | 26 18 53 | 26 17 41 |
| | AUG. . | 30 3 43 | 29 13 57 | | SEPT. . | 25 7 37 | 25 2 27 |
| | SEPT. . | 28 16 27 | 28 4 43 | | OCT. . | 24 20 21 | 24 12 25 |
| | OCT. . | 28 5 11 | 27 22 27 | | ○ | { 8 14 43 | 8 20 6 |
| | NOV. . | 26 17 55 | 26 17 46 | | NOV. . | { 23 9 5 | 22 23 58 |
| | DEC. . | 26 6 39 | 26 13 9 | | DEC. . | 22 21 49 | 22 13 13 |
| 540. | ○ | { 10 1 2 | 9 21 6 | 543. | JAN. . | 21 10 34 | 21 4 5 |
| A.G. | JAN. . | { 24 19 21 | 25 6 58 | D. | FEB. . | 19 23 18 | 19 20 11 |
| 18 17 6 | FEB. . | 23 8 8 | 23 22 3 | 19 10 33 | MAR. . | 21 12 2 | 21 12 52 |
| | MAR. . | 23 20 52 | 24 10 4 | | APRIL | 20 0 46 | 20 5 19 |
| | APRIL | 22 9 36 | 22 19 23 | | ○ | { 4 19 8 | 4 18 12 |
| | MAY . | 21 22 20 | 22 2 49 | | MAY . | { 19 13 30 | 19 20 42 |
| | JUNE . | 20 11 4 | 20 9 28 | | JUNE . | 18 2 14 | 18 10 21 |
| | JULY . | 19 23 48 | 19 16 27 | | JULY . | 17 14 58 | 17 22 15 |
| | AUG. . | 18 12 32 | 18 0 49 | | AUG. . | 16 3 42 | 16 8 45 |
| | SEPT. . | 17 1 16 | 16 11 31 | | SEPT. . | 14 16 26 | 14 18 34 |
| | OCT. . | 16 14 0 | 16 1 6 | | OCT. . | { 14 5 10 | 14 4 24 |
| | NOV. . | 15 2 44 | 14 17 38 | | ○ | { 23 23 32 | 23 20 2 |
| | DEC. . | 14 15 28 | 14 12 18 | | NOV. . | 12 17 54 | 12 14 43 |
| 541. | JAN. . | 13 4 13 | 13 7 41 | 544. | JAN. . | 10 19 22 | 10 13 21 |
| F. | FEB. . | 11 16 57 | 12 2 12 | C.B. | FEB. . | 9 8 6 | 9 2 8 |
| 18 22 55 | MAR. . | 13 5 41 | 13 18 25 | 18 16 22 | MAR. . | 9 20 51 | 9 15 41 |
| | APRIL | 11 18 25 | 12 7 42 | | APRIL | 8 9 35 | 8 6 10 |
| | MAY . | { 11 7 9 | 11 18 7 | | MAY . | 7 22 19 | 7 21 24 |
| | ○ | { 26 1 31 | 25 17 40 | | JUNE . | 6 11 3 | 6 12 52 |
| | JUNE . | 9 19 53 | 10 2 24 | | JULY . | 5 23 47 | 6 3 53 |
| | JULY . | 9 8 37 | 9 9 37 | | AUG. . | 4 12 31 | 4 17 57 |
| | AUG. . | 7 21 21 | 7 16 50 | | SEPT. . | 3 1 15 | 3 6 55 |
| | SEPT. . | 6 10 5 | 6 1 5 | | OCT. . | 2 13 59 | 2 18 56 |
| | OCT. . | 5 22 49 | 5 11 10 | | NOV. . | { 1 2 43 | 1 6 21 |
| | NOV. . | { 4 11 33 | 3 23 35 | | NOV. . | { 30 15 27 | 30 17 24 |
| | ○ | { 19 5 55 | 19 14 16 | | DEC. . | 30 4 11 | 30 4 15 |
| | DEC. . | 4 0 17 | 3 14 30 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 545. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 548. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 28 16 55 | 28 14 52 | E.D. | JAN. . | 26 8 5 | 26 21 5 |
| March. | FEB. . | 27 5 39 | 27 1 30 | March. | FEB. . | 24 20 49 | 25 9 23 |
| <i>d. h. m.</i> | ○ | { 14 0 1 | 14 13 51 | <i>d. h. m.</i> | MAR. . | 25 9 38 | 25 19 8 |
| 18 22 10 | MAR. . | { 28 18 23 | 28 12 32 | | APRIL | 23 22 17 | 24 2 58 |
| | APRIL | 27 7 7 | 27 0 32 | | MAY . | 23 11 1 | 23 9 50 |
| | MAY . | 26 19 51 | 26 13 54 | | JUNE . | 21 23 45 | 21 16 48 |
| | JUNE . | 25 8 35 | 25 4 38 | | JULY . | 21 12 29 | 21 0 59 |
| | JULY . | 24 21 19 | 24 20 19 | | AUG. . | 20 1 13 | 19 11 25 |
| | AUG. . | 23 10 3 | 23 12 14 | | SEPT. . | 18 13 57 | 18 0 48 |
| | ○ | { 7 4 25 | 6 17 13 | | OCT. . | 18 2 41 | 17 17 13 |
| | SEPT. . | { 21 22 47 | 22 3 43 | | NOV. . | 16 15 25 | 16 11 57 |
| | OCT. . | 21 11 31 | 21 18 16 | | DEC. . | { 16 4 9 | 16 7 33 |
| | NOV. . | 20 0 15 | 20 7 38 | | ○ | { 30 22 31 | 30 19 56 |
| | DEC. . | 19 12 59 | 19 19 49 | | | | |
| 546. | JAN. . | 18 1 44 | 18 6 46 | 549. | JAN. . | 14 16 53 | 15 2 18 |
| G. | FEB. . | 16 14 28 | 16 16 39 | C. | FEB. . | 13 5 33 | 13 18 50 |
| | ○ | { 3 8 50 | 3 17 26 | 18 21 26 | MAR. . | 14 18 22 | 15 8 18 |
| 19 3 59 | MAR. . | { 18 3 12 | 18 1 45 | | APRIL | 13 7 6 | 13 18 48 |
| | APRIL | 16 15 56 | 16 10 44 | | MAY . | 12 19 50 | 13 3 0 |
| | MAY . | 16 4 40 | 15 20 27 | | JUNE . | { 11 8 34 | 11 9 54 |
| | JUNE . | 14 17 24 | 14 7 45 | | ○ | { 26 2 56 | 26 2 13 |
| | JULY . | 14 6 8 | 13 21 9 | | JULY . | 10 21 18 | 10 16 38 |
| | AUG. . | { 12 18 52 | 12 12 38 | | AUG. . | 9 10 2 | 9 0 15 |
| | ○ | { 27 13 14 | 27 9 15 | | SEPT. . | 7 22 46 | 7 9 47 |
| | SEPT. . | 11 7 36 | 11 5 38 | | OCT. . | 7 11 30 | 6 21 58 |
| | OCT. . | 10 20 20 | 10 23 10 | | NOV. . | 6 0 14 | 5 13 7 |
| | NOV. . | 9 9 4 | 9 16 10 | | DEC. . | { 5 12 53 | 5 6 49 |
| | DEC. . | 8 21 43 | 9 7 42 | | ○ | { 20 7 20 | 20 11 42 |
| 547. | JAN. . | 7 10 33 | 7 21 16 | 550. | JAN. . | 4 1 42 | 4 1 56 |
| F. | FEB. . | { 5 23 17 | 6 8 42 | B. | FEB. . | 2 14 26 | 2 20 58 |
| | ○ | { 20 17 39 | 20 17 8 | 19 3 15 | MAR. . | 4 3 10 | 4 14 20 |
| 19 9 48 | MAR. . | 7 12 1 | 7 18 14 | | APRIL | 2 15 54 | 3 5 3 |
| | APRIL | 6 0 45 | 6 2 25 | | MAY . | { 2 4 38 | 2 16 49 |
| | MAY . | 5 13 29 | 5 9 59 | | ○ | { 15 11 44 | { 1 2 5 |
| | JUNE . | 4 2 13 | 3 17 57 | | JUNE . | { 30 6 6 | { 30 9 46 |
| | JULY . | 3 14 57 | 3 3 25 | | JULY . | 29 18 50 | 29 16 59 |
| | ○ | { 2 3 41 | 1 15 13 | | AUG. . | 28 7 34 | 28 0 46 |
| | AUG. ○ | { 16 22 3 | 17 1 26 | | SEPT. . | 26 20 18 | 26 9 59 |
| | | { 31 16 25 | 31 5 51 | | OCT. . | 26 9 2 | 25 21 17 |
| | SEPT. . | 30 5 9 | 29 22 59 | | NOV. . | 24 21 46 | 24 10 58 |
| | OCT. . | 29 17 53 | 29 17 42 | | ○ | { 9 16 8 | 10 1 24 |
| | NOV. . | 28 6 37 | 28 12 30 | | DEC. . | { 24 10 30 | 24 2 54 |
| | DEC. . | 27 19 21 | 28 6 0 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 551. A. March. d. h. m. 19 9 3 | | d. h. m. | d. h. m. | A.D. 554. D. March. d. h. m. 19 2 30 | | d. h. m. | d. h. m. |
| | JAN. . | 22 23 15 | 22 20 29 | | JAN. . | 19 14 25 | 19 13 58 |
| | FEB. . | 21 11 59 | 21 14 36 | | FEB. . | 18 3 9 | 18 0 20 |
| | MAR. . | 23 0 43 | 23 8 1 | | MAR. . | 19 15 53 | 19 10 49 |
| | APRIL | 21 13 27 | 21 23 40 | | ○ | { 3 10 15 | 3 23 52 |
| | MAY . | 21 2 11 | 21 12 55 | | APRIL | { 18 4 37 | 17 21 59 |
| | JUNE . | 19 14 55 | 19 23 50 | | MAY . | 17 17 21 | 17 10 25 |
| | JULY . | 19 3 39 | 19 9 3 | | JUNE . | 16 6 5 | 16 0 22 |
| | AUG. . | 17 16 23 | 17 17 30 | | JULY . | 15 18 49 | 15 15 40 |
| | SEPT. . | 16 5 7 | 16 2 5 | | AUG. . | 14 7 33 | 14 7 43 |
| | OCT. . | 15 17 51 | 15 11 33 | | SEPT. . | { 12 20 17 | 12 23 47 |
| | NOV. . | 14 6 35 | 13 22 22 | | ○ | { 27 14 39 | 27 2 24 |
| | DEC. . | 13 19 19 | 13 10 44 | | OCT. . | 12 9 1 | 12 15 8 |
| | | | | | NOV. . | 10 21 45 | 11 5 23 |
| 552. G.F. 18 14 52 | JAN. . | 12 8 4 | 12 0 39 | 555. C. 18 8 19 | JAN. . | 8 23 14 | 9 5 52 |
| | FEB. . | 10 20 48 | 10 15 55 | | FEB. . | 7 11 58 | 7 16 7 |
| | MAR. . | 11 9 32 | 11 8 7 | | MAR. . | 9 0 42 | 9 1 21 |
| | APRIL | { 9 22 16 | 10 0 35 | | APRIL | 7 13 26 | 7 10 4 |
| | ○ | { 21 16 38 | 24 18 26 | | MAY . | 7 2 10 | 6 19 5 |
| | MAY . | 9 11 0 | 9 16 29 | | JUNE . | 5 14 54 | 5 5 18 |
| | JUNE . | 7 23 44 | 8 7 4 | | JULY . | 5 3 38 | 4 17 32 |
| | JULY . | 7 12 28 | 7 19 58 | | AUG. . | 3 16 22 | 3 8 2 |
| | AUG. . | 6 1 12 | 6 7 19 | | SEPT. . | 2 5 6 | 2 0 32 |
| | SEPT. . | 4 13 56 | 4 17 40 | | ○ | { 1 17 50 | 1 18 11 |
| | OCT. . | { 4 2 40 | 4 3 40 | | OCT. . | { 31 6 34 | 31 11 49 |
| | ○ | { 18 21 2 | 18 14 26 | | NOV. . | 29 19 18 | 30 4 22 |
| | NOV. . | 2 15 24 | 2 13 53 | | DEC. . | 29 8 2 | 29 19 3 |
| | DEC. . | { 2 4 8 | 2 0 37 | | | | |
| | | { 31 16 52 | 31 11 57 | | | | |
| 553. E. 18 20 41 | JAN. . | 30 5 36 | 29 23 55 | 556. B.A. 18 14 8 | JAN. . | 27 20 46 | 28 7 31 |
| | FEB. . | 28 18 20 | 28 12 40 | | ○ | { 11 15 8 | 11 12 15 |
| | MAR. . | 30 7 4 | 30 2 24 | | FEB. . | { 26 9 30 | 26 17 49 |
| | ○ | { 14 1 26 | 14 11 11 | | MAR. . | 26 22 14 | 27 2 25 |
| | APRIL | { 28 19 48 | 28 17 4 | | APRIL | 25 10 58 | 25 10 0 |
| | MAY . | 28 8 32 | 28 8 22 | | MAY . | 24 23 42 | 24 17 30 |
| | JUNE . | 26 21 16 | 26 23 41 | | JUNE . | 23 12 26 | 23 1 59 |
| | JULY . | 26 10 0 | 26 14 28 | | JULY . | 23 1 10 | 22 12 30 |
| | AUG. . | 24 22 44 | 25 4 15 | | ○ | { 6 19 32 | 7 0 37 |
| | SEPT. . | 23 11 28 | 23 17 0 | | AUG. . | { 21 13 54 | 21 1 45 |
| | ○ | { 8 5 50 | 7 16 45 | | SEPT. . | 20 2 33 | 19 17 49 |
| | OCT. . | { 28 0 12 | 23 4 57 | | OCT. . | 19 15 22 | 19 12 3 |
| | NOV. . | 21 12 56 | 21 16 20 | | NOV. . | 18 4 6 | 18 7 9 |
| | DEC. . | 21 1 40 | 21 3 20 | | DEC. . | 17 16 50 | 18 1 35 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 557. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 560. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| G. | JAN. . | { 16 5 35 | 16 18 1 | D.C. | JAN. . | 13 20 45 | 13 15 35 |
| March. | O | { 30 23 57 | 30 17 34 | March. | FEB. . | 12 9 29 | 12 9 21 |
| <i>d. h. m.</i> | FEB. . | 14 18 19 | 15 7 40 | <i>d. h. m.</i> | MAR. . | 12 22 13 | 13 3 3 |
| 18 19 56 | MAR. . | 16 7 3 | 16 18 32 | 18 13 23 | APRIL | 11 10 57 | 11 19 33 |
| | APRIL | 14 19 47 | 15 3 5 | | MAY . | { 10 23 41 | 11 9 59 |
| | MAY . | 14 8 31 | 14 10 12 | | O | { 25 18 3 | 25 10 8 |
| | JUNE . | 12 21 15 | 12 16 56 | | JUNE . | 9 12 25 | 9 22 7 |
| | JULY . | { 12 9 59 | 12 0 22 | | JULY . | 9 1 9 | 9 8 14 |
| | O | { 27 4 21 | 27 10 25 | | AUG. . | 7 13 53 | 7 17 9 |
| | AUG. . | 10 22 43 | 10 9 36 | | SEPT. . | 6 2 37 | 6 1 46 |
| | SEPT. . | 9 11 27 | 8 21 31 | | OCT. . | 5 15 21 | 5 10 55 |
| | OCT. . | 9 0 11 | 8 12 33 | | NOV. . | { 4 4 5 | 3 21 11 |
| | NOV. . | 7 12 55 | 7 6 20 | | O | { 18 22 27 | 19 4 11 |
| | DEC. . | 7 1 39 | 7 1 44 | | DEC. . | 3 16 49 | 3 8 46 |
| 558. | JAN. . | { 5 14 23 | 5 21 7 | 561. | JAN. . | { 2 5 34 | 1 21 49 |
| F. | O | { 20 8 45 | 20 5 49 | B. | FEB. . | { 31 18 18 | 31 12 11 |
| 19 1 45 | FEB. . | 4 3 7 | 4 14 51 | | ... | ... | ... |
| | MAR. . | 5 15 52 | 6 5 50 | 18 19 12 | MAR. . | { 2 7 2 | 2 3 41 |
| | APRIL | 4 4 36 | 4 17 41 | | APRIL | { 31 19 46 | 31 19 52 |
| | MAY . | 3 17 20 | 4 2 52 | | O | { 30 8 30 | 30 11 58 |
| | JUNE . | 2 6 4 | 2 10 16 | | MAY . | { 15 2 52 | 15 1 44 |
| | JULY O | { 1 13 48 | 1 16 58 | | JUNE . | { 29 21 14 | 30 3 15 |
| | AUG. . | { 16 13 10 | 16 13 16 | | JULY . | { 28 0 58 | 28 17 7 |
| | SEPT. . | { 31 7 32 | 31 0 6 | | AUG. . | { 27 22 42 | 28 5 25 |
| | OCT. . | 29 20 16 | 29 8 40 | | SEPT. . | 26 11 26 | 26 16 27 |
| | NOV. . | 28 9 0 | 27 19 33 | | OCT. . | 25 0 10 | 25 2 48 |
| | DEC. . | 27 21 44 | 27 9 17 | | O | 24 12 54 | 24 13 5 |
| | | 26 10 28 | 26 1 46 | | NOV. . | { 8 7 16 | 8 3 52 |
| | | 25 23 12 | 25 20 17 | | DEC. . | { 23 1 33 | 22 23 40 |
| 559. | JAN. . | 24 11 56 | 24 15 26 | 562. | JAN. . | 21 3 6 | 20 22 9 |
| E. | FEB. . | 23 0 40 | 23 9 41 | A. | FEB. . | 19 15 50 | 19 10 13 |
| 19 7 34 | MAR. . | 24 13 24 | 25 1 43 | 19 1 1 | MAR. . | 21 4 34 | 20 23 8 |
| | APRIL | 23 2 8 | 23 14 54 | | APRIL | 19 17 18 | 19 13 4 |
| | MAY . | 22 14 52 | 23 1 19 | | MAY . | 19 6 2 | 19 8 55 |
| | JUNE . | 21 3 36 | 21 9 44 | | JUNE . | 17 18 46 | 17 19 17 |
| | JULY . | 20 16 20 | 20 17 10 | | JULY . | 17 7 30 | 17 10 31 |
| | AUG. . | 19 5 4 | 19 0 41 | | AUG. . | 15 20 14 | 16 1 3 |
| | SEPT. . | 17 17 48 | 17 9 16 | | SEPT. . | 14 8 58 | 14 14 33 |
| | OCT. . | 17 6 32 | 16 19 35 | | OCT. . | 13 21 42 | 14 3 14 |
| | NOV. . | { 15 19 16 | 15 8 6 | | NOV. . | { 12 10 26 | 12 15 6 |
| | O | { 30 13 38 | 30 22 50 | | DEC. . | { 11 23 10 | 12 2 23 |
| | DEC. . | 15 8 0 | 14 22 54 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---|--|--|---|--|---|--|
| A.D. 563. G. March. d. h. m. 19 6 49 | JAN. . FEB. . MAR. . O APRIL MAY . JUNE . JULY . AUG. . SEPT. . O OCT. . NOV. . DEC. . | d. h. m. 10 11 55 9 0 39 { 10 13 23 25 7 45 9 2 7 8 14 51 7 3 35 6 16 19 5 5 3 { 3 17 47 18 12 9 3 6 31 1 19 15 { 1 7 59 30 20 43 | d. h. m. 10 13 8 8 23 25 10 9 32 25 21 19 8 20 0 8 7 29 6 20 30 6 11 8 5 3 1 3 19 23 18 1 15 3 11 23 2 2 35 1 16 22 31 4 40 | A.D. 566. C. March. d. h. m. 19 0 16 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | d. h. m. 7 3 5 5 15 49 7 4 33 5 17 17 5 6 1 3 18 45 3 7 29 { 1 20 13 31 8 57 29 21 41 29 10 25 27 23 9 27 11 53 | d. h. m. 7 14 13 6 5 18 7 17 26 6 2 56 5 10 33 3 17 17 3 0 12 1 8 27 30 19 0 29 8 32 29 1 6 27 19 55 27 15 31 |
| 564. P.E. 18 12 38 | JAN. . FEB. . O MAR. . APRIL MAY . JUNE . JULY . AUG. . O SEPT. . OCT. . NOV. . DEC. . | 29 9 27 27 22 11 { 13 16 33 28 10 56 26 23 40 26 12 24 25 1 8 24 13 52 23 2 36 { 6 20 58 21 15 20 21 4 4 19 16 48 19 5 32 | 29 15 29 28 1 0 14 0 39 28 9 40 26 18 12 26 3 32 24 14 33 24 3 54 22 19 33 6 17 20 21 12 57 21 6 58 20 0 24 19 16 15 | 567. D. 19 6 5 | O JAN. . FEB. . MAR. . APRIL MAY . JUNE . O JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . O | { 11 6 15 26 0 37 24 13 21 26 2 5 24 14 49 24 3 33 22 16 17 { 7 10 39 22 5 1 20 17 45 19 6 29 18 19 13 17 7 57 { 16 20 41 31 15 3 | 11 6 47 26 10 12 25 2 35 26 15 54 25 2 16 24 10 24 22 17 20 7 8 41 22 0 13 20 8 2 18 17 47 18 6 9 16 21 19 16 14 53 31 20 37 |
| 565. D. 18 18 27 | JAN. . FEB. . O MAR. . APRIL MAY . JUNE . JULY . AUG. . O SEPT. . OCT. . NOV. . DEC. . | 17 18 16 16 7 0 { 3 1 22 17 19 44 16 8 28 15 21 12 14 9 56 13 22 40 12 11 24 27 5 46 11 0 8 10 12 52 9 1 36 8 14 20 | 18 5 51 16 17 7 8 0 31 18 2 20 16 10 10 15 17 25 14 1 10 13 10 31 11 22 21 27 9 13 10 13 8 10 6 32 9 1 32 8 20 36 | 568. A.G. 18 11 54 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . O JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . O | 15 9 26 13 22 10 14 10 54 12 23 38 12 12 22 { 11 1 6 25 19 28 10 13 50 9 2 34 7 15 18 7 4 2 5 16 46 { 5 5 30 19 23 52 | 15 9 43 14 4 32 14 21 40 13 12 14 12 23 58 11 9 20 25 10 18 10 17 12 9 0 45 7 8 52 6 18 23 5 5 52 4 19 30 20 10 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 569. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 572. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. March. <i>d. h. m.</i> 18 17 42 | JAN. . | 3 18 15 | 3 11 10 | C.B. | JAN. . | { 1 9 24 | 1 12 17 |
| | FEB. . | 2 6 59 | 2 4 16 | March. <i>d. h. m.</i> 18 11 9 | FEB. . | { 30 22 8 | 30 22 39 |
| | MAR. . | 3 19 43 | 3 21 55 | | MAR. . | 29 10 53 | 29 8 34 |
| | APRIL | 2 8 27 | 2 14 59 | | | 29 23 37 | 29 18 31 |
| | MAY . | { 1 21 11 | 2 6 27 | | ○ | { 13 17 59 | 14 7 11 |
| | ○ | { 31 9 55 | 31 19 45 | | APRIL | { 28 12 21 | 28 5 9 |
| | JUNE . | { 29 22 39 | 30 6 56 | | MAY . | 28 1 5 | 27 17 10 |
| | JULY . | 29 11 23 | 29 16 31 | | JUNE . | 26 13 49 | 26 6 56 |
| | AUG. . | 28 0 7 | 28 1 23 | | JULY . | 26 2 33 | 25 22 18 |
| | SEPT. . | 26 12 51 | 26 10 26 | | AUG. . | 24 15 17 | 24 14 42 |
| | OCT. . | 26 1 35 | 25 20 16 | | SEPT. . | 23 4 1 | 23 7 17 |
| | NOV. . | 24 14 19 | 24 7 14 | | ○ | { 7 22 23 | 7 10 45 |
| | DEC. . | 24 3 3 | 23 19 28 | | OCT. . | { 22 16 45 | 22 23 14 |
| | | | | | NOV. . | 21 5 29 | 21 13 57 |
| | | | | | DEC. . | 20 18 13 | 21 3 7 |
| 570. | JAN. . | 22 15 47 | 22 8 58 | 573. | JAN. . | 19 6 57 | 19 14 38 |
| E. 18 23 31 | FEB. . | 21 4 31 | 20 23 40 | A. | FEB. . | 17 19 41 | 18 0 36 |
| | MAR. . | 22 17 15 | 22 15 18 | 18 16 58 | MAR. . | 19 8 25 | 19 9 25 |
| | APRIL | 21 5 59 | 21 7 18 | | APRIL | 17 21 9 | 17 17 42 |
| | ○ | { 6 0 21 | 6 2 3 | | MAY . | 17 9 53 | 17 2 18 |
| | MAY . | { 20 18 43 | 20 23 0 | | JUNE . | 15 22 37 | 15 12 14 |
| | JUNE . | 19 7 27 | 19 13 40 | | JULY . | 15 11 21 | 15 0 19 |
| | JULY . | 18 20 11 | 19 2 55 | | AUG. . | 14 0 5 | 13 14 55 |
| | AUG. . | 17 8 55 | 17 14 46 | | SEPT. . | 12 12 49 | 12 7 42 |
| | SEPT. . | 15 21 39 | 16 1 41 | | OCT. . | 12 1 33 | 12 1 44 |
| | OCT. . | { 15 10 23 | 15 12 11 | | NOV. . | 10 14 17 | 10 19 51 |
| | ○ | { 30 4 45 | 29 22 13 | | DEC. . | 10 3 1 | 10 12 46 |
| | NOV. . | 13 23 7 | 13 22 45 | | | | |
| | DEC. . | 13 11 51 | 13 9 35 | | | | |
| 571. | JAN. . | 12 0 36 | 11 20 44 | 574. | JAN. . | 8 15 46 | 9 8 87 |
| D. 19 5 20 | FEB. . | 10 13 20 | 10 8 14 | G. | FEB. . | { 7 4 30 | 7 15 59 |
| | MAR. . | 12 2 4 | 11 20 24 | 18 22 47 | ○ | { 21 22 52 | 21 19 52 |
| | APRIL | { 10 14 48 | 10 9 31 | | MAR. . | 8 17 14 | 9 2 2 |
| | ○ | { 25 9 10 | 25 18 47 | | APRIL | 7 5 53 | 7 10 13 |
| | MAY . | 10 3 32 | 9 23 43 | | MAY . | 6 13 42 | 6 17 35 |
| | JUNE . | 8 16 16 | 8 14 43 | | JUNE . | 5 7 23 | 5 0 50 |
| | JULY . | 8 5 0 | 8 6 13 | | JULY . | 4 20 10 | 4 9 12 |
| | AUG. . | 6 17 44 | 6 21 22 | | AUG. . | { 8 8 54 | 2 19 41 |
| | SEPT. . | 5 6 23 | 5 11 44 | | ○ | { 18 8 16 | 18 8 13 |
| | OCT. . | { 4 19 12 | 5 1 6 | | SEPT. . | 1 21 33 | 1 9 2 |
| | ○ | { 19 13 34 | 19 0 47 | | OCT. . | { 1 10 22 | 1 1 13 |
| | NOV. . | 3 7 56 | 3 13 34 | | | { 30 23 6 | 30 19 43 |
| | DEC. . | 2 20 40 | 3 1 16 | | NOV. . | 29 11 50 | 29 15 9 |
| | | | | | DEC. . | 29 0 34 | 29 9 45 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 575. F. March. <i>d. h. m.</i> 19 4 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 578. B. March. <i>d. h. m.</i> 18 22 2 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 27 13 18 | 28 2 11 | | JAN. . | 24 4 28 | 23 23 34 |
| | ○ | { 11 7 40 | 11 1 44 | | FEB. . | 22 17 12 | 22 16 50 |
| | FEB. . | 26 2 2 | 26 15 43 | | MAR. . | 24 5 56 | 24 10 5 |
| | MAR. . | 27 14 47 | 28 2 23 | | APRIL | 22 18 40 | 23 2 19 |
| | APRIL | 26 3 31 | 26 10 44 | | MAY . | 22 7 24 | 22 16 44 |
| | MAY . | 25 16 15 | 25 17 42 | | ○ | { 6 1 46 | 5 16 59 |
| | JUNE . | 24 4 59 | 24 0 22 | | JUNE . | { 20 20 8 | 21 5 2 |
| | JULY . | 23 17 43 | 23 7 51 | | JULY . | 20 8 52 | 20 15 30 |
| | ○ | { 7 12 5 | 7 17 30 | | AUG. . | 18 21 36 | 19 0 51 |
| | AUG. . | { 22 6 27 | 21 17 11 | | SEPT. . | 17 10 20 | 17 9 58 |
| | SEPT. . | 20 19 11 | 20 5 16 | | OCT. . | 16 23 4 | 16 19 32 |
| | OCT. . | 20 7 55 | 19 20 26 | | NOV. . | { 15 11 48 | 15 6 0 |
| | NOV. . | 18 20 39 | 18 14 17 | | ○ | { 30 6 10 | 30 12 16 |
| | DEC. . | 18 9 23 | 18 9 41 | | DEC. . | 15 0 32 | 14 17 35 |
| 576. E.D. 18 10 24 | JAN. . | { 16 22 7 | 17 5 1 | 579. A. 19 3 51 | JAN. . | 13 13 16 | 13 6 18 |
| | ○ | { 31 16 29 | 31 14 26 | | FEB. . | 12 2 1 | 11 20 11 |
| | FEB. . | 15 10 51 | 15 22 37 | | MAR. . | 13 14 45 | 13 11 5 |
| | MAR. . | 15 23 35 | 16 13 25 | | APRIL | 12 3 20 | 12 2 42 |
| | APRIL | 14 12 19 | 15 1 9 | | MAY . | { 11 16 13 | 11 18 30 |
| | MAY . | 14 1 3 | 14 10 16 | | ○ | { 26 10 35 | 26 9 11 |
| | JUNE . | 12 13 47 | 12 17 40 | | JUNE . | 10 4 57 | 10 9 45 |
| | JULY . | { 12 2 31 | 12 0 29 | | JULY . | 9 17 41 | 9 23 52 |
| | ○ | { 26 20 53 | 26 19 54 | | AUG. . | 8 6 25 | 8 12 37 |
| | AUG. . | 10 15 15 | 10 7 49 | | SEPT. . | 6 19 9 | 7 0 13 |
| | SEPT. . | 9 3 59 | 8 16 38 | | OCT. . | 6 7 53 | 6 11 9 |
| | OCT. . | 8 16 43 | 8 3 44 | | NOV. . | { 4 20 37 | 4 21 51 |
| | NOV. . | 7 5 27 | 6 17 33 | | ○ | { 19 14 59 | 19 11 45 |
| | DEC. . | 6 18 11 | 6 9 57 | | DEC. . | 4 9 21 | 4 8 37 |
| 577. C. 18 16 13 | JAN. . | 5 6 56 | 5 4 15 | 580. G.F. 18 9 40 | JAN. . | 2 22 6 | 2 19 38 |
| | FEB. . | 3 19 40 | 3 23 6 | | FEB. . | 1 10 50 | 1 6 41 |
| | MAR. . | 5 8 24 | 5 17 3 | | MAR. . | { 1 23 34 | 1 18 12 |
| | APRIL | 3 21 8 | 4 8 52 | | | { 31 12 18 | 31 6 31 |
| | MAY . | 3 9 52 | 3 21 58 | | APRIL | 30 1 2 | 29 19 54 |
| | JUNE . | 1 22 36 | 2 8 29 | | MAY . | 29 13 46 | 29 10 26 |
| | JULY . | { 1 11 20 | 1 17 4 | | JUNE . | 28 2 30 | 28 1 45 |
| | | { 31 0 4 | 31 0 47 | | JULY . | 27 15 14 | 27 17 15 |
| | AUG. . | 29 12 48 | 29 8 41 | | AUG. . | 26 3 58 | 26 8 18 |
| | SEPT. . | 28 1 32 | 27 17 37 | | SEPT. . | 24 16 42 | 24 22 29 |
| | OCT. . | 27 14 16 | 27 4 11 | | OCT. . | 24 5 26 | 24 11 39 |
| | NOV. . | 26 3 0 | 25 16 43 | | NOV. . | 22 18 10 | 22 23 55 |
| | ○ | { 10 21 22 | 11 7 21 | | DEC. . | 22 6 54 | 22 11 20 |
| | DEC. . | 25 15 44 | 25 7 18 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 581. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 584. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 20 19 38 | 20 21 55 | March. | JAN. . | 18 10 48 | 18 22 21 |
| <i>d. h. m.</i> | FEB. . | 19 8 22 | 19 7 50 | <i>d. h. m.</i> | FEB. . | 16 23 32 | 17 13 21 |
| 18 15 28 | MAR. . | 20 21 6 | 20 17 25 | 18 8 55 | MAR. . | 17 12 16 | 18 1 18 |
| | ○ | { 4 15 28 | 5 4 35 | | APRIL | 16 1 1 | 16 10 37 |
| | APRIL | { 19 9 50 | 19 3 22 | | MAY . | 15 13 45 | 15 18 5 |
| | MAY . | 18 22 34 | 18 14 24 | | JUNE . | 14 2 29 | 14 0 45 |
| | JUNE . | 17 11 18 | 17 3 7 | | JULY . | 13 15 12 | 13 7 41 |
| | JULY . | 17 0 2 | 16 17 44 | | AUG. . | 12 8 57 | 11 16 2 |
| | AUG. . | 15 12 46 | 15 9 50 | | SEPT. . | 10 16 41 | 10 2 45 |
| | SEPT. . | { 14 1 30 | 14 2 40 | | OCT. . | 10 5 25 | 9 16 26 |
| | ○ | { 28 19 52 | 28 9 32 | | NOV. . | 8 18 9 | 8 9 5 |
| | OCT. . | 13 14 14 | 13 19 18 | | DEC. . | 8 6 53 | 8 8 54 |
| | NOV. . | 12 2 58 | 12 10 57 | | | | |
| | DEC. . | 11 15 42 | 12 1 5 | 585. | JAN. . | { 6 19 37 | 6 23 26 |
| | | | | G. | ○ | { 21 13 59 | 21 13 33 |
| 582. | JAN. . | 10 4 26 | 10 13 26 | | FEB. . | 5 8 21 | 5 17 58 |
| D. | FEB. . | 8 17 11 | 9 0 4 | | MAR. . | 6 21 5 | 7 10 11 |
| 18 21 17 | MAR. . | { 10 5 55 | 10 9 14 | 18 14 44 | APRIL | 5 9 49 | 5 23 22 |
| | ○ | { 25 0 17 | 25 7 39 | | MAY . | 4 22 33 | 5 9 39 |
| | APRIL | 8 18 39 | 8 17 28 | | JUNE . | 3 11 17 | 3 17 48 |
| | MAY . | 8 7 23 | 8 1 35 | | JULY . | { 3 0 1 | 3 0 49 |
| | JUNE . | 6 20 7 | 6 10 35 | | ○ | { 17 18 23 | 17 15 15 |
| | JULY . | 6 8 51 | 5 21 26 | | AUG. . | { 1 12 45 | 1 7 53 |
| | AUG. . | 4 21 35 | 4 10 46 | | ○ | { 31 1 29 | 30 15 53 |
| | SEPT. . | { 3 10 19 | 3 2 37 | | SEPT. . | 29 14 13 | 29 1 59 |
| | ○ | { 18 4 41 | 18 1 34 | | OCT. . | 29 2 57 | 28 14 23 |
| | OCT. . | 2 23 3 | 2 20 22 | | NOV. . | 27 15 41 | 27 5 37 |
| | NOV. . | 1 11 47 | 1 14 49 | | DEC. . | 27 4 25 | 26 23 0 |
| | DEC. . | { 1 0 31 | 1 8 39 | | | | |
| | | { 30 13 15 | 31 0 42 | | ○ | { 10 22 48 | 11 5 23 |
| 583. | JAN. . | 29 2 0 | 29 14 19 | 586. | JAN. . | { 25 17 10 | 25 17 35 |
| C. | FEB. . | 27 14 44 | 28 1 23 | F. | FEB. . | 24 5 54 | 24 11 58 |
| | ○ | { 14 9 6 | 14 7 46 | 18 20 33 | MAR. . | 23 18 33 | 26 4 50 |
| 19 3 6 | MAR. . | { 29 3 28 | 29 10 20 | | APRIL | 24 7 22 | 24 19 13 |
| | APRIL | 27 16 12 | 27 17 50 | | MAY . | 23 20 6 | 24 7 2 |
| | MAY . | 27 4 56 | 27 0 50 | | JUNE . | 22 8 50 | 22 16 34 |
| | JUNE . | 25 17 40 | 25 8 27 | | ○ | { 7 8 12 | 6 17 1 |
| | JULY . | 25 6 24 | 24 17 44 | | JULY . | { 21 21 34 | 22 0 44 |
| | AUG. . | 23 19 8 | 23 5 39 | | AUG. . | 20 10 18 | 20 8 37 |
| | ○ | { 7 13 30 | 7 17 10 | | SEPT. . | 18 23 2 | 18 17 7 |
| | SEPT. . | { 22 7 52 | 21 20 35 | | OCT. . | 18 11 46 | 18 2 57 |
| | OCT. . | 21 20 36 | 21 14 12 | | NOV. . | 17 0 30 | 16 14 32 |
| | NOV. . | 20 9 20 | 20 9 26 | | DEC. . | { 16 13 14 | 16 4 3 |
| | DEC. . | 19 22 4 | 20 4 41 | | ○ | { 31 7 36 | 31 18 43 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 587. κ. March. d. h. m. 18 2 21 | | d. h. m. | d. h. m. | A.D. 590. Λ. March. d. h. m. 18 19 48 | | d. h. m. | d. h. m. |
| | JAN. . | 15 1 58 | 14 19 21 | | JAN. . | 11 17 8 | 11 21 9 |
| | FEB. . | 13 14 42 | 13 11 57 | | FEB. . | 10 5 52 | 10 7 13 |
| | MAR. . | 15 3 26 | 15 5 5 | | MAR. . | 11 18 36 | 11 16 40 |
| | APRIL . | 13 16 10 | 13 21 47 | | APRIL . | 10 7 20 | 10 2 6 |
| | MAY . | 13 4 54 | 13 13 6 | | ○ | 25 1 42 | 25 14 22 |
| | JUNE . | 11 17 38 | 12 2 32 | | MAY . | 9 20 4 | 9 12 14 |
| | ○ | 26 12 0 | 26 1 23 | | JUNE . | 8 8 48 | 7 23 53 |
| | JULY . | 11 6 22 | 11 14 1 | | JULY . | 7 21 32 | 7 13 31 |
| | AUG. . | 9 19 6 | 10 0 3 | | AUG. . | 6 10 16 | 6 5 0 |
| | SEPT. . | 8 7 50 | 8 9 25 | | SEPT. . | 4 23 0 | 4 21 46 |
| | OCT. . | 7 20 34 | 7 18 55 | | OCT. . | 4 11 44 | 4 14 54 |
| | NOV. . | 6 9 18 | 6 5 3 | | ○ | 19 6 6 | 18 19 11 |
| | DEC. . | 5 22 2 | 5 16 7 | | NOV. . | 3 0 28 | 3 7 24 |
| | | | | | DEC. . | 2 13 12 | 2 22 32 |
| 588. δ. c. 18 8 10 | JAN. . | 4 10 47 | 4 4 9 | 591. g. 19 1 37 | JAN. . | 1 1 56 | 1 11 51 |
| | FEB. . | 2 23 31 | 2 17 13 | | FEB. . | 80 14 41 | 80 23 17 |
| | MAR. . | 3 12 15 | 3 7 18 | | ... | ... | ... |
| | APRIL . | 2 0 59 | 1 22 20 | | MAR. . | 1 3 25 | 1 8 58 |
| | | 1 13 43 | 1 18 56 | | ... | ... | ... |
| | MAY ○ | 16 8 5 | 16 9 34 | | APRIL . | 30 16 9 | 30 17 23 |
| | | 31 2 27 | 31 5 28 | | MAY . | 29 4 53 | 29 1 15 |
| | JUNE . | 29 15 11 | 29 20 18 | | JUNE . | 28 17 37 | 28 9 31 |
| | JULY . | 29 3 55 | 29 9 56 | | JULY . | 27 6 21 | 26 19 13 |
| | AUG. . | 27 16 39 | 27 22 21 | | AUG. . | 26 19 5 | 26 7 14 |
| | SEPT. . | 26 5 23 | 26 9 50 | | SEPT. . | 25 7 49 | 24 21 56 |
| | OCT. . | 25 18 7 | 25 20 50 | | OCT. . | 23 20 33 | 23 15 0 |
| | ○ | 9 12 29 | 9 6 6 | | NOV. . | 23 9 17 | 23 9 26 |
| | NOV. . | 24 6 51 | 24 7 42 | | DEC. . | 21 22 1 | 22 3 56 |
| | DEC. . | 23 19 35 | 23 18 32 | | | 21 10 45 | 21 21 19 |
| 589. η. 18 13 50 | JAN. . | 22 8 20 | 22 5 25 | 592. F.E. 18 7 26 | JAN. . | 19 23 30 | 20 12 3 |
| | FEB. . | 20 21 4 | 20 16 28 | | FEB. . | 18 12 14 | 19 0 18 |
| | MAR. . | 22 9 48 | 22 4 2 | | ○ | 4 6 36 | 4 8 21 |
| | APRIL . | 20 22 32 | 20 16 33 | | MAR. . | 19 0 58 | 19 10 6 |
| | ○ | 5 16 54 | 6 2 15 | | APRIL . | 17 13 42 | 17 13 4 |
| | MAY . | 20 11 16 | 20 6 20 | | MAY . | 17 2 26 | 17 1 5 |
| | JUNE . | 18 23 59 | 18 21 14 | | JUNE . | 15 15 10 | 15 8 10 |
| | JULY . | 18 12 48 | 18 12 48 | | JULY . | 15 3 54 | 14 16 23 |
| | AUG. . | 17 1 27 | 17 4 21 | | AUG. . | 13 16 33 | 13 3 0 |
| | SEPT. . | 15 14 11 | 15 19 18 | | ○ | 28 11 0 | 28 15 56 |
| | OCT. . | 15 2 55 | 15 9 18 | | SEPT. . | 12 5 22 | 11 16 29 |
| | ○ | 29 21 17 | 29 8 57 | | OCT. . | 11 18 6 | 11 8 57 |
| | NOV. . | 13 15 39 | 13 22 11 | | NOV. . | 10 6 50 | 10 3 39 |
| | DEC. . | 13 4 23 | 13 10 10 | | DEC. . | 9 19 34 | 9 23 11 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|------------|------------------------------------|------------------------------------|
| A.D. 593. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 596. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 8 8 18 | 8 17 51 | A.G. March. | JAN. . | 5 23 28 | 5 15 41 |
| March. | FEB. . | { 6 21 2 | 7 10 14 | <i>d. h. m.</i> | FEB. . | 4 12 12 | 4 7 28 |
| <i>d. h. m.</i> | ○ | { 21 15 24 | 21 9 49 | 18 6 41 | MAR. . | 5 0 56 | 5 0 10 |
| 18 13 14 | MAR. . | 8 9 46 | 8 23 38 | | APRIL . | 3 13 40 | 3 16 58 |
| | APRIL . | 6 22 30 | 7 10 5 | | MAY . | 3 2 24 | 3 8 59 |
| | MAY . | 6 11 14 | 6 18 17 | | JUNE . | { 1 15 8 | 1 23 25 |
| | JUNE . | 4 23 58 | 5 1 9 | | ○ | { 16 9 30 | 16 0 33 |
| | JULY . | 4 12 42 | 4 7 49 | | JULY . | { 1 3 52 | 1 11 58 |
| | AUG. . | { 3 1 26 | 2 15 25 | | { 30 16 36 | 30 22 51 | |
| | ○ | { 17 19 48 | 18 0 37 | | AUG. . | 29 5 20 | 29 8 42 |
| | SEPT. . | 1 14 10 | { 1 0 55 | | SEPT. . | 27 18 4 | 27 18 18 |
| | ○ | { 1 2 54 | 30 13 10 | | OCT. . | 27 6 48 | 27 4 16 |
| | OCT. . | { 30 15 38 | 30 4 27 | | NOV. . | 25 19 32 | 25 14 55 |
| | NOV. . | 29 4 22 | 28 22 19 | | ○ | { 10 13 54 | 10 20 23 |
| | DEC. . | 28 17 6 | 28 17 38 | | DEC. . | { 25 8 16 | 25 2 25 |
| 594. | JAN. . | 27 5 51 | 27 12 48 | 597. | JAN. . | 23 21 1 | 23 14 46 |
| C. | ○ | { 11 0 13 | 10 22 58 | F. | FEB. . | 22 9 45 | 22 4 4 |
| 18 19 3 | FEB. . | { 25 18 35 | 26 6 12 | 18 12 30 | MAR. . | 23 22 29 | 23 18 20 |
| | MAR. . | 27 7 19 | 27 20 51 | | APRIL . | 22 11 13 | 22 9 28 |
| | APRIL . | 25 20 3 | 26 8 29 | | MAY . | 21 23 57 | 22 0 59 |
| | MAY . | 25 8 47 | 25 17 35 | | ○ | { 5 18 19 | 5 16 38 |
| | JUNE . | 23 21 31 | 24 1 4 | | JUNE . | { 20 12 41 | 20 16 16 |
| | JULY . | 23 10 15 | 23 8 6 | | JULY . | 20 1 25 | 20 6 41 |
| | ○ | { 7 4 37 | 7 2 38 | | AUG. . | 18 14 9 | 18 19 57 |
| | AUG. . | { 21 22 59 | 21 15 42 | | SEPT. . | 17 2 53 | 17 8 9 |
| | SEPT. . | 20 11 43 | 20 0 48 | | OCT. . | 16 15 37 | 16 19 37 |
| | OCT. . | 20 0 27 | 19 12 5 | | NOV. . | { 15 4 21 | 15 6 48 |
| | NOV. . | 18 13 11 | 18 1 56 | | ○ | { 29 22 43 | 29 19 43 |
| | DEC. . | 18 1 55 | 17 18 12 | | DEC. . | 14 17 5 | 14 17 36 |
| 595. | JAN. . | 16 14 39 | 16 12 9 | 598. | JAN. . | 13 5 49 | 13 4 23 |
| B. | FEB. . | 15 3 23 | 15 6 37 | E. | FEB. . | 11 13 33 | 11 15 5 |
| 19 0 52 | MAR. . | 16 16 7 | 17 0 12 | 18 18 19 | MAR. . | 13 7 17 | 13 2 4 |
| | APRIL . | 15 4 51 | 15 15 51 | | APRIL . | 11 20 1 | 11 13 46 |
| | MAY . | 14 17 35 | 15 4 56 | | MAY . | 11 8 45 | 11 2 38 |
| | JUNE . | 13 6 19 | 13 15 34 | | JUNE . | 9 21 29 | 9 16 55 |
| | JULY . | 12 19 3 | 13 0 26 | | JULY . | 9 10 13 | 9 8 14 |
| | AUG. . | 11 7 47 | 11 8 31 | | AUG. . | 7 22 57 | 8 0 2 |
| | SEPT. . | 9 20 31 | 9 16 53 | | SEPT. . | 6 11 41 | 6 15 36 |
| | OCT. . | 9 9 15 | 9 2 5 | | OCT. . | 6 0 25 | 6 6 24 |
| | NOV. . | 7 21 59 | 7 12 52 | | NOV. . | 4 18 9 | 4 20 10 |
| | DEC. . | { 7 10 43 | 7 1 23 | | DEC. . | 4 1 53 | 4 8 45 |
| | ○ | { 22 5 5 | 22 15 55 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 599. D. March. d. h. m. 19 0 7 | | d. h. m. | d. h. m. | A.D. 602. G. March. d. h. m. 18 17 34 | | d. h. m. | d. h. m. |
| | JAN. . | 2 14 38 | 2 20 15 | | JAN. . | 28 18 31 | 29 6 22 |
| | FEB. . | 1 3 22 | 1 6 38 | | FEB. . | 27 7 16 | 27 21 15 |
| | MAR. . | 2 16 6 | 2 16 8 | | MAR. . | 28 20 0 | 29 9 3 |
| | APRIL O | { 1 4 50 15 23 12 30 17 31 | { 1 1 14 16 11 45 30 10 41 | | APRIL | 27 8 44 | 27 18 10 |
| | MAY . | 30 6 18 | 29 21 18 | | MAY . | 26 21 28 | 27 1 31 |
| | JUNE . | 28 19 2 | 28 9 48 | | JUNE . | 25 10 12 | 25 8 10 |
| | JULY . | 28 7 46 | 28 0 24 | | JULY . | 24 22 56 | 24 15 14 |
| | AUG. . | 26 20 30 | 26 16 46 | | AUG. . | 23 11 40 | 22 23 46 |
| | SEPT. . | 25 9 14 | 25 10 4 | | SEPT. . | 22 0 24 | 21 10 39 |
| | O | { 10 3 36 24 21 58 | { 9 17 58 25 3 15 | | OCT. . | 21 13 8 | 21 0 28 |
| | OCT. . | 23 10 42 | 23 19 23 | | NOV. . | 20 1 52 | 19 17 10 |
| | NOV. . | 22 23 26 | 23 9 46 | | DEC. . | 19 14 36 | 19 11 54 |
| | DEC. . | 21 12 11 | 21 22 9 | 603. F. | JAN. . | 18 3 21 | 18 7 16 |
| 600. C.B. 18 5 56 | JAN. . | 20 0 55 | 20 8 32 | | O | { 1 21 43 16 16 5 | { 1 22 14 17 1 36 |
| | FEB. . | 20 13 39 | 20 17 20 | 18 23 23 | FEB. . | 18 4 49 | 18 17 36 |
| | MAR. . | { 4 8 1 19 2 23 | { 4 14 34 19 1 10 | | MAR. . | 16 17 33 | 17 6 40 |
| | APRIL | 18 15 7 | 18 8 56 | | APRIL | 16 6 17 | 16 16 56 |
| | MAY . | 17 3 51 | 16 17 41 | | MAY . | 14 19 1 | 15 1 8 |
| | JUNE . | 16 16 35 | 16 4 24 | | JUNE . | { 14 7 45 29 2 7 | { 14 8 21 28 21 53 |
| | JULY . | 15 5 19 | 14 17 46 | | O | 12 20 29 | 12 15 40 |
| | AUG. . | { 13 18 3 28 12 25 | { 13 9 51 28 9 58 | | AUG. . | 11 9 13 | 11 0 4 |
| | SEPT. . | 18 6 47 | 18 3 55 | | SEPT. . | 10 21 57 | 10 10 19 |
| | O | 11 19 31 | 11 22 46 | | OCT. . | 9 10 41 | 8 22 55 |
| | OCT. . | 11 8 15 | 11 16 54 | | NOV. . | 8 23 25 | 8 13 58 |
| | NOV. . | 9 20 59 | 10 9 6 | 604. E.D. | JAN. . | { 7 12 9 22 6 31 | { 7 7 3 22 14 13 |
| 601. A. 18 11 45 | JAN. . | 8 9 48 | 8 22 39 | | O | 6 0 53 | 6 1 13 |
| | FEB. . | { 9 22 27 24 16 49 | { 10 9 31 24 14 53 | 18 5 12 | FEB. . | 6 13 37 | 6 19 13 |
| | MAR. . | 8 11 11 | 8 18 10 | | MAR. . | 5 2 21 | 5 11 48 |
| | O | 7 23 55 | 8 1 23 | | APRIL | 4 15 5 | 5 2 10 |
| | APRIL | 6 12 39 | 6 8 13 | | MAY . | 3 3 49 | 3 14 2 |
| | MAY . | 6 1 23 | 5 15 45 | | JUNE . | { 2 16 33 17 10 55 | { 2 23 47 16 23 50 |
| | JUNE . | 4 14 7 | 4 1 4 | | O | { 1 5 17 30 18 1 | { 1 8 19 30 16 26 |
| | AUG. . | { 3 2 51 17 21 13 | { 2 13 5 18 1 13 | | AUG. . | 29 6 45 | 29 1 30 |
| | SEPT. . | 2 15 35 | 2 4 10 | | SEPT. . | 28 19 29 | 28 11 36 |
| | O | { 1 4 19 30 17 3 | { 31 22 0 30 17 23 | | OCT. . | 27 8 13 | 26 23 16 |
| | NOV. . | 30 5 47 | 30 12 43 | | NOV. . | 26 20 57 | 26 12 36 |
| | DEC. . | | | | DEC. . | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---|--|---|--|---|---|---|
| A.D. 605. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 608. G.F. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 18 11 0 | ○ JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | { 10 15 20 25 9 42 23 22 26 25 11 10 23 23 54 23 12 38 22 1 22 6 19 44 21 14 6 20 2 50 18 15 34 18 4 18 16 17 2 16 5 46 | 11 3 16 25 3 29 23 19 31 25 12 8 24 4 29 23 19 44 22 9 18 6 8 37 21 21 10 20 7 42 18 17 35 18 3 31 16 13 57 16 1 1 | 18 4 27 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 23 0 52 21 13 36 22 2 20 20 15 4 5 9 26 20 3 43 18 16 32 18 5 16 16 18 0 15 6 44 14 19 23 29 13 50 13 8 12 12 20 56 | 23 5 56 21 15 40 22 0 41 20 9 35 5 21 26 19 19 19 18 6 40 17 20 12 16 11 51 15 5 0 14 22 38 29 3 47 13 15 37 13 7 6 |
| 606. B. 18 16 49 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | 14 18 30 13 7 14 14 19 58 13 8 42 12 21 26 27 15 43 11 10 10 10 22 54 9 11 38 8 0 22 7 13 6 6 1 50 20 20 12 5 14 34 | 14 12 47 13 1 21 14 14 49 13 5 17 12 20 29 27 17 2 11 11 55 11 2 55 9 17 1 8 6 0 7 18 5 6 5 33 20 14 4 5 16 38 | | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 11 9 40 9 22 24 11 11 8 9 23 52 9 12 36 8 1 20 7 14 4 6 2 43 4 15 32 4 4 16 2 17 0 2 5 44 31 18 28 | 11 20 32 10 7 48 11 17 10 10 1 12 9 8 43 7 16 43 7 2 16 5 14 16 4 5 5 3 22 26 2 17 15 2 12 3 ... |
| 607. A. 18 22 33 | JAN. . FEB. . MAR. . APRIL ○ MAY ○ JUNE . JULY . AUG. . SEPT. . OCT. . ○ NOV. . DEC. . | 4 3 19 2 16 3 4 4 47 2 17 31 2 6 15 17 0 37 31 18 59 30 7 43 28 9 11 26 21 55 26 10 39 10 5 1 24 23 23 24 12 7 | 4 3 27 2 14 2 4 0 33 2 11 31 1 23 31 17 9 38 31 12 55 30 3 43 28 11 28 27 2 59 26 17 35 9 17 18 25 6 58 24 19 4 | | JAN. . FEB. . ○ MAR. . APRIL MAY . JUNE . JULY . AUG. . ○ SEPT. . OCT. . NOV. . DEC. . | { ... 30 7 13 23 19 57 15 14 19 30 8 41 23 21 25 23 10 9 26 22 53 26 11 37 25 0 21 8 18 43 23 13 5 23 1 49 21 14 33 21 3 17 | 1 5 27 30 20 23 1 8 28 15 10 41 30 18 1 29 1 42 23 8 31 26 15 31 25 23 50 24 10 27 8 23 46 23 0 4 22 16 43 21 11 33 21 7 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---|--|--|---------------------------------------|--|--|--|
| A.D. 611. c. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 614. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 18 21 53 | JAN. . FEB. . O MAR. . APRIL MAY . JUNE . JULY . AUG. . O SEPT. . OCT. . NOV. . DEC. . | 19 16 1 18 4 45 { 4 23 7 19 17 30 18 6 14 17 18 58 16 7 42 15 20 26 { 14 9 10 29 3 32 12 21 54 12 10 38 10 23 22 10 12 6 | 20 1 48 18 18 7 4 17 44 20 7 22 18 17 40 18 1 44 16 8 36 15 15 22 13 23 7 29 7 52 12 8 50 11 21 14 10 12 35 10 6 23 | March. <i>d. h. m.</i> 18 15 19 | O JAN. . FEB. . MAR. . APRIL MAY . JUNE . O JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . O | { 1 12 50 16 7 12 14 19 56 16 8 40 14 21 24 14 10 8 { 12 22 52 27 17 14 12 11 36 11 0 20 9 13 4 9 1 48 7 14 32 { 7 3 16 21 21 33 | 2 0 25 16 0 2 14 15 16 16 7 24 14 23 46 14 15 34 13 6 4 27 7 49 12 18 55 11 6 16 9 16 41 9 2 46 7 13 6 6 23 53 22 4 29 |
| 612. H.A. | JAN. . FEB. . O MAR. . APRIL MAY . JUNE . JULY . AUG. . O SEPT. . OCT. . NOV. . DEC. . | 9 0 50 { 7 18 34 22 7 56 8 2 18 6 15 2 6 3 46 4 16 30 4 5 14 { 2 17 53 17 12 20 1 6 42 30 19 26 80 8 10 23 20 54 23 9 33 | 9 1 32 7 20 26 22 7 21 8 13 28 7 4 7 6 15 42 5 0 51 4 8 30 2 15 47 17 9 27 31 23 41 30 9 5 29 20 33 28 10 23 28 2 25 | 615. E. | JAN. . FEB. . MAR. . APRIL MAY . JUNE . O JULY . AUG. . SEPT. . OCT. . NOV. . O DEC. . | 5 16 0 4 4 44 5 17 28 4 6 12 3 18 56 { 2 7 40 17 2 2 1 20 24 31 9 8 29 21 52 28 10 36 27 23 20 26 12 4 11 6 26 26 0 48 | 5 11 12 3 23 8 5 11 51 4 1 31 3 16 9 2 7 26 17 0 4 1 22 45 31 13 33 30 3 22 28 16 11 28 4 10 26 15 36 11 3 41 26 2 33 |
| 613. G. | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 26 22 22 25 11 6 26 23 51 25 12 35 25 1 19 23 14 8 23 2 47 21 15 81 20 4 15 19 16 59 18 5 43 17 18 27 | 26 19 53 25 13 59 27 7 16 25 22 44 25 11 50 23 22 40 23 7 52 21 16 22 20 1 4 19 10 41 17 21 38 17 10 5 | 616. D.C. | JAN. . FEB. . MAR. . APRIL MAY . O JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 24 13 33 23 2 17 23 15 1 22 3 45 21 16 29 5 10 51 { 20 5 13 19 17 57 18 6 41 16 19 25 16 8 9 14 20 53 14 9 37 | 24 13 8 22 23 25 23 9 48 21 20 57 21 9 24 5 17 8 19 23 24 19 14 47 18 6 56 16 23 4 16 14 28 15 4 43 14 17 36 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 617. B. March. <i>d. h. m.</i> 18 8 46 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 620. F.F. March. <i>d. h. m.</i> 18 2 12 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 12 22 22 | 13 5 5 | | JAN. . | 10 18 31 | 10 20 40 |
| | FEB. . | 11 11 6 | 11 15 18 | | FEB. . | 9 2 15 | 9 14 14 |
| | MAR. . | 12 23 50 | 13 0 18 | | MAR. . | 9 14 59 | 10 4 58 |
| | APRIL | { 11 12 34 | 11 8 55 | | APRIL | 8 3 43 | 8 16 36 |
| | ○ | { 26 6 56 | 26 18 47 | | MAY . | 7 16 27 | 8 1 37 |
| | MAY . | 11 1 18 | 10 17 55 | | JUNE . | 6 5 11 | 6 8 57 |
| | JUNE . | 9 14 2 | 9 4 12 | | JULY . | 5 17 55 | 5 15 39 |
| | JULY . | 9 2 46 | 8 16 31 | | AUG. . | 4 6 39 | 3 22 53 |
| | AUG. . | 7 15 30 | 7 7 11 | | SEPT. . | 2 19 23 | 2 7 37 |
| | SEPT. . | 6 4 14 | 5 23 51 | | ○ | { 2 8 7 | 1 18 43 |
| | OCT. . | { 5 16 58 | 5 17 37 | | OCT. . | { 31 20 51 | 31 8 39 |
| | ○ | { 20 11 20 | 20 2 31 | | NOV. . | 30 9 35 | 30 1 18 |
| | NOV. . | 4 5 42 | 4 11 18 | | DEC. . | 29 22 19 | 29 19 51 |
| | DEC. . | 3 18 26 | 4 3 49 | | | | |
| 618. A. | JAN. . | { 2 7 10 | 2 18 24 | 621. D. | JAN. . | 28 11 3 | 28 14 56 |
| | | { 31 19 54 | ... | | ○ | { 12 5 25 | 12 8 44 |
| | FEB. . | ... | 1 6 42 | | FEB. . | { 26 23 48 | 27 9 3 |
| 18 14 35 | MAR. . | { 2 8 38 | 2 16 51 | 18 8 1 | MAR. . | 28 12 32 | 29 0 52 |
| | ○ | { 31 21 22 | { 1 1 16 | | APRIL | 27 1 16 | 27 13 51 |
| | | { 15 15 44 | { 15 21 22 | | MAY . | 26 14 0 | 27 0 7 |
| | APRIL | { 30 10 6 | { 30 8 45 | | JUNE . | 25 2 44 | 25 8 28 |
| | MAY . | 29 22 50 | 29 16 15 | | JULY . | 24 15 28 | 24 15 56 |
| | JUNE . | 28 11 34 | 28 0 49 | | ○ | { 8 9 50 | 8 4 37 |
| | JULY . | 28 0 18 | 27 11 29 | | AUG. . | { 23 4 12 | 22 23 33 |
| | AUG. . | 26 13 2 | 26 0 55 | | SEPT. . | 21 16 56 | 21 8 18 |
| | SEPT. . | 25 1 46 | 24 17 13 | | OCT. . | 21 5 40 | 20 18 47 |
| | ○ | { 9 20 8 | 9 18 28 | | NOV. . | 19 18 24 | 19 7 27 |
| | OCT. . | { 24 14 30 | 24 11 35 | | DEC. . | 19 7 8 | 18 22 20 |
| | NOV. . | 23 3 14 | 23 6 44 | | | | |
| | DEC. . | 22 15 58 | 23 1 7 | 622. C. | JAN. . | 17 19 53 | 17 15 4 |
| 619. G. | JAN. . | 21 4 42 | 21 17 22 | | ○ | { 1 14 15 | 1 22 51 |
| 18 20 24 | FEB. . | 19 17 27 | 20 6 50 | 18 13 50 | FEB. . | { 16 8 37 | 16 8 47 |
| | MAR. . | 21 6 11 | 21 17 29 | | MAR. . | 17 21 21 | 18 2 21 |
| | ○ | { 5 0 33 | 4 21 5 | | APRIL | 16 10 5 | 16 18 42 |
| | APRIL | { 19 18 55 | 20 1 53 | | MAY . | 15 22 49 | 16 8 59 |
| | MAY . | 19 7 39 | 19 8 55 | | JUNE . | 14 11 33 | 14 20 59 |
| | JUNE . | 17 20 23 | 17 15 38 | | JULY . | { 14 0 17 | 14 7 4 |
| | JULY . | 17 9 7 | 16 23 10 | | ○ | { 28 18 39 | 28 6 46 |
| | AUG. . | 15 21 51 | 15 8 34 | | AUG. . | 12 13 1 | 12 16 1 |
| | SEPT. . | { 14 10 35 | 13 20 42 | | SEPT. . | 11 1 45 | 11 0 43 |
| | ○ | { 29 4 57 | 29 9 24 | | OCT. . | 10 14 29 | 10 10 1 |
| | OCT. . | 13 23 19 | 13 11 57 | | NOV. . | 9 3 13 | 8 20 23 |
| | NOV. . | 12 12 3 | 12 5 53 | | DEC. . | 8 15 57 | 8 8 4 |
| | DEC. . | 12 0 47 | 12 1 21 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|-----------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 623. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 626. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | JAN. . | { 7 4 41 | 6 21 8 | E. | JAN. . | 3 19 51 | 4 3 55 |
| March. | ○ | { 21 23 3 | 22 11 42 | March. | FEB. . | 2 8 35 | 2 14 37 |
| <i>d. h. m.</i> | FEB. . | 5 17 25 | 5 11 30 | <i>d. h. m.</i> | MAR. . | 3 21 19 | 3 23 58 |
| 18 19 39 | MAR. . | 7 6 9 | 7 2 58 | 18 18 5 | APRIL | 2 10 3 | 2 8 32 |
| | APRIL | 5 18 53 | 5 19 3 | | MAY ○ | { 1 22 47 | 1 17 0 |
| | MAY . | 5 7 37 | 5 11 4 | | | { 16 17 9 | 17 4 24 |
| | JUNE . | 3 20 21 | 4 2 16 | | | { 31 11 31 | 31 2 21 |
| | JULY . | { 3 9 5 | 3 16 5 | | JUNE . | 30 0 15 | 29 13 29 |
| | ○ | { 18 3 27 | 17 15 52 | | JULY . | 29 12 59 | 29 2 57 |
| | AUG. . | { 1 21 49 | 2 4 21 | | AUG. . | 28 1 43 | 27 18 49 |
| | | { 31 10 33 | 31 15 25 | | SEPT. . | 26 14 27 | 26 12 21 |
| | SEPT. . | 29 23 17 | 30 1 52 | | OCT. . | 26 3 11 | 26 6 27 |
| | OCT. . | 29 12 1 | 29 12 15 | | ○ | { 9 21 33 | 9 12 29 |
| | NOV. . | 28 0 45 | 27 22 53 | | NOV. . | { 24 15 55 | 24 23 53 |
| | DEC. . | 27 18 29 | 27 9 55 | | DEC. . | 24 4 39 | 24 15 38 |
| 624. | JAN. . | 26 2 13 | 25 21 21 | 627. | JAN. . | 22 17 23 | 23 5 6 |
| A.G. | FEB. . | 24 14 58 | 24 9 22 | D. | FEB. . | 21 6 7 | 21 16 10 |
| 18 1 23 | MAR. . | 25 3 42 | 24 22 15 | 18 18 54 | MAR. . | 22 18 52 | 23 1 14 |
| | APRIL | 23 16 26 | 23 12 8 | | APRIL | 21 7 36 | 21 8 56 |
| | MAY . | 23 5 10 | 23 2 59 | | MAY . | 20 20 20 | 20 16 10 |
| | ○ | { 6 23 32 | 7 0 29 | | JUNE . | 19 9 4 | 18 23 56 |
| | JUNE . | { 21 17 54 | 21 18 21 | | JULY . | 18 21 48 | 18 9 24 |
| | JULY . | 21 6 38 | 21 9 37 | | AUG. . | 17 10 32 | 16 21 26 |
| | AUG. . | 19 19 22 | 20 0 11 | | SEPT. . | 15 23 16 | 15 12 25 |
| | SEPT. . | 18 8 6 | 18 13 43 | | OCT. . | 15 12 0 | 15 6 1 |
| | OCT. . | 17 20 50 | 18 2 28 | | NOV. . | 14 0 44 | 14 1 7 |
| | NOV. . | 16 9 34 | { 16 14 22 | | DEC. . | 13 13 28 | 13 20 11 |
| | ○ | { 1 3 56 | { 30 22 6 | | | | |
| | DEC. . | { 15 22 18 | 16 1 38 | 628. | JAN. . | 12 2 13 | 12 13 41 |
| 625. | JAN. . | 14 11 3 | 14 12 20 | C.B. | FEB. . | 10 14 57 | 11 4 34 |
| F. | FEB. . | 12 23 47 | 12 22 30 | 18 0 43 | MAR. . | { 11 3 41 | 11 16 29 |
| 18 7 17 | MAR. . | 14 12 31 | 14 8 31 | | ○ | { 25 22 3 | 25 17 56 |
| | APRIL | 13 1 15 | 12 18 57 | | APRIL | 9 16 25 | 10 1 47 |
| | MAY . | { 12 18 59 | 12 6 26 | | MAY . | 9 5 9 | 9 9 17 |
| | ○ | { 27 8 21 | 27 16 57 | | JUNE . | 7 17 53 | 7 15 58 |
| | JUNE . | 11 2 43 | 10 19 31 | | JULY . | 7 6 37 | 6 22 57 |
| | JULY . | 10 15 27 | 10 10 14 | | AUG. . | 5 19 21 | 5 7 19 |
| | AUG. . | 9 4 11 | 9 2 12 | | SEPT. . | { 4 8 5 | 3 18 5 |
| | SEPT. . | 7 16 55 | 7 18 41 | | ○ | { 19 2 27 | 19 7 43 |
| | OCT. . | 7 5 39 | 7 10 49 | | OCT. . | 3 20 49 | 3 7 52 |
| | NOV. . | { 5 18 23 | 6 1 57 | | NOV. . | 2 9 33 | 2 0 37 |
| | ○ | { 20 12 45 | 20 1 38 | | DEC. . | { 1 22 17 | 1 19 32 |
| | DEC. . | 5 7 7 | 5 15 42 | | | { 31 11 1 | 31 15 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 629. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 632. E.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 18 6 32 | JAN. . | 29 23 45 | 30 9 41 | March. <i>d. h. m.</i> 17 23 58 | ○ | { 12 20 33 | 13 8 47 |
| | FEB. . | 28 12 29 | { 1 1 50 | | JAN. . | { 27 14 55 | 27 8 17 |
| | ○ | { 15 6 51 | { 15 1 35 | | FEB. . | 26 3 39 | 25 22 57 |
| | MAR. . | { 30 1 13 | { 30 14 55 | | MAR. . | 26 16 23 | 26 14 30 |
| | APRIL | 28 13 57 | 29 1 7 | | APRIL | 25 5 7 | 25 6 26 |
| | MAY . | 28 2 41 | 28 9 8 | | MAY . | 24 17 51 | 24 22 8 |
| | JUNE . | 26 15 25 | 26 16 3 | | JUNE . | 23 6 35 | 23 12 40 |
| | JULY . | 26 4 9 | 25 22 57 | | ○ | { 8 0 57 | 7 15 8 |
| | AUG. . | 24 16 53 | 24 6 56 | | JULY . | { 22 19 19 | 23 1 54 |
| | ○ | { 8 11 15 | 8 15 14 | | AUG. . | 21 8 3 | 21 13 47 |
| | SEPT. . | { 23 5 37 | 22 16 53 | | SEPT. . | 19 20 47 | 20 0 45 |
| | OCT. . | 22 18 21 | 22 5 27 | | OCT. . | 19 9 31 | 19 11 20 |
| | NOV. . | 21 7 5 | 20 20 47 | | NOV. . | 17 22 15 | 17 21 59 |
| | DEC. . | 20 19 49 | 20 14 27 | | DEC. . | 17 10 59 | 17 8 50 |
| 630. G. | JAN. . | 19 8 34 | 19 9 21 | 633. C. | ○ | { 1 5 22 | 1 12 31 |
| 18 12 21 | FEB. . | 17 21 18 | 18 3 58 | 18 5 47 | JAN. . | { 15 23 44 | 15 19 56 |
| | ○ | { 4 15 40 | 4 15 37 | | FEB. . | 14 12 28 | 14 7 23 |
| | MAR. . | { 19 10 2 | 19 20 52 | | MAR. . | 16 1 12 | 15 19 31 |
| | APRIL | 17 22 46 | 18 11 16 | | APRIL | 14 13 56 | 14 8 35 |
| | MAY . | 17 11 30 | 17 22 50 | | MAY . | 14 2 40 | 13 22 46 |
| | JUNE . | 16 0 14 | 16 8 6 | | JUNE . | { 12 15 24 | 12 13 52 |
| | JULY . | 15 12 58 | 15 16 0 | | ○ | { 27 9 46 | 27 7 32 |
| | AUG. . | { 14 1 42 | 13 23 36 | | JULY . | 12 4 8 | 12 5 19 |
| | ○ | { 28 20 4 | 28 16 23 | | AUG. . | 10 16 52 | 10 20 30 |
| | SEPT. . | 12 14 26 | 12 7 51 | | SEPT. . | 9 5 36 | 9 10 54 |
| | OCT. . | 12 3 10 | 11 17 33 | | OCT. . | 8 18 20 | 9 0 20 |
| | NOV. . | 10 15 54 | 10 5 10 | | NOV. . | 7 7 4 | 7 12 51 |
| | DEC. . | 10 4 38 | 9 18 55 | | DEC. . | { 6 19 48 | 7 0 32 |
| 631. F. | JAN. . | 8 17 23 | 8 10 37 | 634. B. | ○ | { 21 14 10 | 21 11 41 |
| 18 18 10 | FEB. . | 7 6 7 | 7 3 41 | 18 11 36 | JAN. . | 5 8 32 | 5 11 30 |
| | MAR. . | 8 18 51 | 8 21 16 | | FEB. . | 3 21 16 | 3 21 45 |
| | APRIL | 7 7 35 | 7 14 11 | | MAR. . | 5 10 0 | 5 7 35 |
| | MAY . | 6 20 19 | 7 5 29 | | APRIL | 3 22 44 | 3 17 26 |
| | JUNE . | 5 9 3 | 5 18 41 | | MAY . | 3 11 28 | 3 4 3 |
| | JULY . | 4 21 47 | 5 5 47 | | JUNE . | { 2 0 12 | 1 16 6 |
| | AUG. . | 3 10 31 | 3 15 22 | | ○ | { 16 18 34 | 17 0 23 |
| | SEPT. . | 1 23 15 | 2 0 19 | | JULY . | { 1 12 56 | 1 5 57 |
| | OCT. . | { 1 11 59 | 1 9 29 | | | { 31 1 40 | 30 21 26 |
| | | { 31 0 43 | 30 19 27 | | AUG. . | 29 14 24 | 29 13 57 |
| | NOV. . | 29 13 27 | 29 6 30 | | SEPT. . | 28 3 8 | 28 6 37 |
| | DEC. . | 29 2 11 | 28 18 47 | | OCT. . | 27 15 52 | 27 22 36 |
| | | | | | NOV. . | 26 4 36 | 26 13 13 |
| | | | | | DEC. . | 25 17 20 | 26 2 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 635. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 638. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 24 6 5 | 24 13 48 | March. | JAN. . | 20 21 15 | 21 4 33 |
| <i>d. h. m.</i> | FEB. . | 22 18 49 | 22 23 38 | <i>d. h. m.</i> | FEB. . | 19 9 59 | 19 21 57 |
| 18 17 25 | MAR. . | 24 7 33 | 24 8 19 | 18 10 51 | MAR. . | 20 22 43 | 21 12 32 |
| | APRIL | 22 20 17 | 22 16 31 | | APRIL | 19 11 27 | 20 0 8 |
| | ○ | { 7 14 39 | 8 1 40 | | MAY . | 19 0 11 | 19 9 0 |
| | MAY . | { 22 9 1 | 22 1 7 | | JUNE . | 17 12 55 | 17 16 23 |
| | JUNE . | 20 21 45 | 20 11 7 | | JULY . | 17 1 39 | 16 23 13 |
| | JULY . | 20 10 29 | 19 23 21 | | AUG. . | 15 14 23 | 15 6 39 |
| | AUG. . | 18 23 13 | 18 14 6 | | SEPT. . | 14 8 7 | 13 15 40 |
| | SEPT. . | 17 11 57 | 17 7 3 | | OCT. . | 13 15 51 | 13 2 57 |
| | OCT. . | { 17 0 41 | 17 1 13 | | NOV. . | 12 4 35 | 11 16 58 |
| | ○ | { 31 19 3 | 31 11 12 | | DEC. . | 11 17 19 | 11 9 30 |
| | NOV. . | 15 13 25 | 15 19 22 | | | | |
| | DEC. . | 15 2 9 | 15 12 13 | 639. | JAN. . | 10 6 4 | 10 3 50 |
| 636. | JAN. . | 13 14 54 | 14 2 56 | C. | FEB. . | { 8 18 48 | 8 22 34 |
| G.F. | FEB. . | 12 3 38 | 12 15 7 | | ○ | { 23 13 10 | 23 15 12 |
| 17 23 14 | MAR. . | 12 16 22 | 13 1 0 | 18 16 40 | MAR. . | 10 7 32 | 10 16 21 |
| | APRIL | { 11 5 6 | 11 9 7 | | APRIL | 8 20 16 | 9 7 59 |
| | ○ | { 25 23 23 | 26 4 3 | | MAY . | 8 9 0 | 8 20 54 |
| | MAY . | 10 17 50 | 10 16 18 | | JUNE . | 6 21 44 | 7 7 16 |
| | JUNE . | 9 6 34 | 8 23 34 | | JULY . | 6 10 28 | 6 15 49 |
| | JULY . | 8 19 18 | 8 8 0 | | AUG. . | { 4 23 12 | 4 23 36 |
| | AUG. . | 7 8 2 | 6 18 41 | | ○ | { 19 17 34 | 19 11 28 |
| | SEPT. . | 5 20 46 | 5 8 14 | | SEPT. . | 3 11 56 | 3 7 36 |
| | OCT. . | { 5 9 30 | 5 0 44 | | OCT. . | 3 0 40 | 2 16 41 |
| | ○ | { 20 8 52 | 20 3 7 | | NOV. . | 1 13 24 | { 1 3 24 |
| | NOV. . | 3 22 14 | 3 19 22 | | DEC. . | { 1 2 8 | { 30 16 5 |
| | DEC. . | 3 10 58 | 3 14 46 | | | { 30 14 52 | 30 6 44 |
| 637. | JAN. . | { 1 23 42 | 2 9 16 | 640. | JAN. . | 29 3 36 | 28 23 0 |
| E. | FEB. . | { 31 12 26 | ... | B.A. | ○ | { 12 21 58 | 13 7 21 |
| 18 5 3 | MAR. . | { 2 1 10 | 2 14 51 | | FEB. . | { 27 16 20 | 27 16 11 |
| | ○ | { 31 13 54 | 1 1 17 | 17 22 29 | MAR. . | 28 5 4 | 28 9 20 |
| | APRIL | { 15 8 16 | { 15 4 50 | | APRIL | 26 17 48 | 27 1 26 |
| | MAY . | { 30 2 38 | { 30 9 29 | | MAY . | 26 6 32 | 26 15 42 |
| | JUNE . | 29 15 22 | 29 16 23 | | JUNE . | 24 19 16 | 25 3 55 |
| | JULY . | 28 4 6 | 27 23 3 | | JULY . | 24 8 0 | 24 14 22 |
| | AUG. . | 27 16 50 | 27 6 38 | | ○ | { 8 2 22 | 7 13 47 |
| | SEPT. . | 26 5 34 | 25 16 11 | | AUG. . | { 22 20 44 | 22 23 46 |
| | ○ | { 24 18 18 | 24 4 29 | | SEPT. . | 21 9 28 | 21 8 59 |
| | OCT. . | { 9 12 40 | 9 17 40 | | OCT. . | 20 22 12 | 20 18 40 |
| | NOV. . | { 24 7 2 | 23 19 51 | | NOV. . | 19 10 56 | 19 5 15 |
| | DEC. . | 22 19 46 | 22 13 51 | | DEC. . | 18 23 40 | 18 16 53 |
| | DEC. . | 22 8 30 | 22 9 18 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|----------|------------------------------------|------------------------------------|---------------------------------------|----------|------------------------------------|------------------------------------|
| A.D. 641. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 644. D.C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 18 4 18 | JAN. . | 17 12 25 | 17 5 37 | March. <i>d. h. m.</i> 17 21 44 | JAN. . | 15 3 35 | 15 12 41 |
| | ○ | { 1 6 47 | 1 20 0 | | FEB. . | 13 16 19 | 13 23 9 |
| | FEB. . | { 16 1 9 | 15 19 27 | | MAR. . | 14 5 3 | 14 8 10 |
| | MAR. . | 17 13 53 | 17 10 18 | | APRIL | 12 17 47 | 12 16 17 |
| | APRIL | 16 2 37 | 16 1 51 | | MAY . | { 12 6 31 | 12 0 23 |
| | MAY . | 15 15 21 | 15 17 35 | | ○ | { 27 0 53 | 27 11 14 |
| | JUNE . | 14 4 5 | 14 8 47 | | JUNE . | 10 19 15 | 10 9 25 |
| | JULY . | { 13 16 49 | 13 22 53 | | JULY . | 10 7 59 | 9 20 23 |
| | ○ | { 28 11 11 | 27 23 15 | | AUG. . | 8 20 43 | 8 9 53 |
| | AUG. . | 12 5 33 | 12 11 39 | | SEPT. . | 7 9 27 | 7 1 55 |
| | SEPT. . | 10 18 17 | 10 23 17 | | OCT. . | 6 22 11 | 6 19 48 |
| | OCT. . | 10 7 1 | 10 10 17 | | NOV. . | { 5 10 55 | 5 14 22 |
| | NOV. . | 8 19 45 | 8 21 4 | | ○ | { 20 5 17 | 19 21 17 |
| | DEC. . | 8 8 29 | 8 7 53 | | DEC. . | 4 23 39 | 5 8 10 |
| 642. F. | JAN. . | 6 21 14 | 6 18 47 | 645. B. | JAN. . | 3 12 23 | 4 0 7 |
| 18 10 7 | FEB. . | 5 9 58 | 5 5 51 | 18 3 33 | FEB. . | 2 1 7 | 2 13 32 |
| | MAR. . | 6 22 42 | 6 17 19 | | MAR. . | 3 13 51 | 4 0 24 |
| | APRIL | 5 11 26 | 5 5 33 | | APRIL | 2 2 35 | 2 9 10 |
| | MAY . | 5 0 10 | 4 18 56 | | MAY . | { 1 15 19 | 1 16 33 |
| | JUNE . | 3 12 54 | 3 9 29 | | { 31 4 3 | 30 23 33 | |
| | JULY . | 3 1 38 | 3 0 50 | | JUNE . | 29 16 47 | 29 7 12 |
| | AUG. . | { 1 14 22 | 1 16 23 | | JULY . | 29 5 31 | 28 16 38 |
| | { 31 3 6 | 31 7 29 | | | AUG. . | 27 18 15 | 27 4 45 |
| | SEPT. . | 29 15 50 | 29 21 43 | | SEPT. . | 26 6 59 | 25 19 54 |
| | OCT. . | 29 4 34 | 29 10 56 | | OCT. . | 25 19 43 | 25 13 48 |
| | NOV. . | 27 17 18 | 27 23 13 | | NOV. . | 24 8 27 | 24 9 2 |
| | ○ | { 12 11 40 | 12 6 12 | | DEC. . | 23 21 11 | 24 4 15 |
| | DEC. . | { 27 6 2 | 27 10 34 | | | | |
| 643. E. | JAN. . | 25 18 46 | 25 21 4 | 646. A. | JAN. . | 22 9 55 | 22 21 46 |
| 18 15 56 | FEB. . | 24 7 30 | 24 6 52 | 18 9 22 | FEB. . | 20 22 40 | 21 12 34 |
| | MAR. . | 25 20 14 | 25 16 23 | | MAR. . | 22 11 24 | 23 0 18 |
| | APRIL | 24 8 58 | 24 2 16 | | ○ | { 6 5 46 | 6 1 4 |
| | MAY . | 23 21 42 | 23 13 19 | | APRIL | { 21 0 8 | 21 9 26 |
| | ○ | { 7 16 4 | 8 0 13 | | MAY . | 20 12 52 | 20 16 46 |
| | JUNE . | { 22 10 26 | 22 2 7 | | JUNE . | 19 1 36 | 18 23 23 |
| | JULY . | 21 23 10 | 21 16 50 | | JULY . | 18 14 20 | 18 6 26 |
| | AUG. . | 20 11 54 | 20 9 4 | | AUG. . | 17 3 4 | 16 14 56 |
| | SEPT. . | 19 0 38 | 19 2 0 | | SEPT. . | { 15 15 48 | 15 1 51 |
| | OCT. . | 18 13 22 | 18 18 42 | | ○ | { 30 10 10 | 30 15 46 |
| | NOV. . | 17 2 6 | 17 10 21 | | OCT. . | 15 4 32 | 14 15 47 |
| | ○ | { 1 20 28 | 1 10 6 | | NOV. . | 13 17 16 | 13 8 36 |
| | DEC. . | { 16 14 50 | 17 0 26 | | DEC. . | 13 6 0 | 13 3 31 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 647. g. March. d. h. m. 18 15 11 | | d. h. m. | d. h. m. | A.D. 650. c. March. d. h. m. 18 8 37 | | d. h. m. | d. h. m. |
| | JAN. . | 11 18 45 | 11 23 0 | | JAN. . | { 8 9 55 | 8 3 26 |
| | FEB. . | 10 7 29 | 10 17 24 | | ○ | { 23 4 17 | 23 17 4 |
| | MAR. . | { 11 20 13 | 12 9 24 | | FEB. . | 6 22 39 | 6 16 29 |
| | ○ | { 26 14 35 | 26 9 18 | | MAR. . | 8 11 23 | 8 6 32 |
| | APRIL | 10 8 57 | 10 22 21 | | APRIL | 7 0 7 | 6 21 31 |
| | MAY . | 9 21 41 | 10 8 28 | | MAY . | 6 12 51 | 6 18 2 |
| | JUNE . | 8 10 25 | 8 16 29 | | JUNE . | 5 1 35 | 5 4 33 |
| | JULY . | 7 23 9 | 7 23 31 | | JULY . | { 4 14 19 | 4 19 19 |
| | AUG. . | 6 11 53 | 6 6 40 | | ○ | { 19 8 41 | 18 22 34 |
| | SEPT. . | { 5 0 37 | 4 14 55 | | AUG. . | 3 3 3 | 3 8 58 |
| | ○ | { 19 18 59 | 19 22 43 | | SEPT. . | 1 15 47 | 1 21 25 |
| | OCT. . | 4 13 21 | 4 1 7 | | ○ | { 1 4 31 | 1 8 58 |
| | NOV. . | 3 2 5 | 2 13 49 | | OCT. . | { 30 17 15 | 30 20 2 |
| | DEC. . | { 2 14 49 | 2 5 6 | | NOV. . | 29 5 59 | 29 6 56 |
| | | { ... | 31 22 33 | | DEC. . | 28 18 43 | 28 17 46 |
| 648. f.e. | JAN. . | { 1 3 33 | ... | 651. b. | ○ | { 12 13 5 | 12 20 23 |
| | FEB. . | { 30 16 17 | 30 17 4 | | JAN. . | { 27 7 27 | 27 4 36 |
| | ○ | { 14 23 23 | 14 23 45 | | FEB. . | 25 20 11 | 25 15 34 |
| 17 21 0 | MAR. . | { 29 17 45 | 30 4 1 | 18 14 26 | MAR. . | 27 8 55 | 27 3 4 |
| | APRIL | 28 6 29 | 28 18 15 | | APRIL | 25 21 39 | 25 15 34 |
| | MAY . | 27 19 13 | 28 5 53 | | MAY . | 25 10 23 | 25 5 21 |
| | JUNE . | 26 7 57 | 26 15 19 | | JUNE . | 23 23 7 | 23 20 18 |
| | JULY . | 25 20 41 | 25 23 31 | | ○ | { 8 17 29 | 8 15 1 |
| | AUG. . | 24 9 25 | 24 7 29 | | JULY . | { 23 11 51 | 23 11 56 |
| | ○ | { 8 3 47 | 7 23 29 | | AUG. . | 22 0 35 | 22 3 32 |
| | SEPT. . | { 22 22 9 | 22 16 7 | | SEPT. . | 20 13 19 | 20 18 32 |
| | OCT. . | 22 10 53 | 22 2 6 | | OCT. . | 20 2 3 | 20 8 34 |
| | NOV. . | 20 23 37 | 20 13 50 | | NOV. . | 18 14 47 | 18 21 32 |
| | DEC. . | 20 12 21 | 20 3 26 | | DEC. . | 18 3 31 | 18 9 26 |
| 649. d. | JAN. . | 19 1 6 | 18 18 46 | 652. a.g. | ○ | { 1 21 54 | 1 19 39 |
| | FEB. . | 17 13 50 | 17 11 20 | | JAN. . | { 16 16 16 | 16 20 20 |
| 18 2 49 | MAR. . | 19 2 34 | 19 4 22 | 17 20 15 | FEB. . | 15 5 0 | 15 6 17 |
| | APRIL | 17 15 18 | 17 20 56 | | MAR. . | 15 17 44 | 15 15 39 |
| | MAY . | 17 4 2 | 17 12 8 | | APRIL | 14 6 28 | 14 1 0 |
| | JUNE . | 15 16 46 | 16 1 23 | | MAY . | 13 19 12 | 13 11 7 |
| | JULY . | 15 5 30 | 15 12 53 | | JUNE . | { 12 7 56 | 11 22 50 |
| | AUG. . | 13 18 14 | 13 22 57 | | ○ | { 27 2 18 | 27 7 49 |
| | SEPT. . | 12 6 58 | 12 8 25 | | JULY . | 11 20 40 | 11 12 35 |
| | OCT. . | 11 19 42 | 11 18 1 | | AUG. . | 10 9 24 | 10 4 12 |
| | NOV. . | 10 8 26 | 10 4 16 | | SEPT. . | 8 22 8 | 8 21 5 |
| | DEC. . | 9 21 10 | 9 15 23 | | OCT. . | 8 10 52 | 8 14 17 |
| | | | | | NOV. . | 6 23 36 | 7 6 49 |
| | | | | | DEC. . | 6 12 20 | 6 21 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 653. F. March. <i>d. h. m.</i> 18 2 4 | JAN. . | <i>d. h. m.</i> 5 1 4 | <i>d. h. m.</i> 5 11 8 | A.D. 656. C.B. March. <i>d. h. m.</i> 17 19 30 | JAN. . | <i>d. h. m.</i> 2 16 14 | <i>d. h. m.</i> 2 17 15 |
| | FEB. . | 3 18 48 | 3 22 25 | | FEB. . | 1 4 58 | 1 12 16 |
| | MAR. . | 5 2 38 | 5 7 58 | | MAR. . | { 1 17 43 | 2 5 30 |
| | APRIL | 3 15 17 | 3 16 15 | | | { 31 6 27 | 31 19 56 |
| | MAY . | 3 4 1 | 3 0 2 | | APRIL | 29 19 11 | 30 7 22 |
| | JUNE . | 1 16 45 | { 1 8 18 | | MAY . | 29 7 55 | 29 16 20 |
| | | { 1 5 29 | { 30 18 6 | | JUNE . | 27 20 39 | 27 23 43 |
| | JULY . | { 30 18 13 | 30 6 17 | | JULY . | 27 9 23 | 27 6 51 |
| | AUG. . | 29 6 57 | 28 21 10 | | AUG. . | 25 22 7 | 25 14 35 |
| | SEPT. . | 27 19 41 | 27 14 24 | | SEPT. . | 24 10 51 | 23 23 51 |
| | OCT. . | 27 8 25 | 27 8 59 | | OCT. . | 23 23 35 | 23 11 20 |
| | ○ | { 11 2 47 | 10 20 0 | | NOV. . | 22 12 19 | 22 1 22 |
| | NOV. . | { 23 21 9 | 26 3 30 | | DEC. . | 22 1 3 | 21 17 43 |
| | DEC. . | 25 9 58 | 25 20 37 | | | | |
| 654. E. 18 7 53 | JAN. . | 23 22 37 | 24 11 20 | 657. A. 18 1 19 | JAN. . | 20 13 47 | 20 11 41 |
| | FEB. . | 22 11 21 | 22 23 24 | | FEB. . | 19 2 31 | 19 6 2 |
| | MAR. . | 24 0 5 | 24 9 0 | | ○ | { 5 20 53 | 5 23 29 |
| | APRIL | 22 12 49 | 22 16 50 | | MAR. . | { 20 15 15 | 20 23 29 |
| | ○ | { 7 7 11 | 7 10 38 | | APRIL | 19 3 59 | 19 14 56 |
| | MAY . | { 22 1 33 | 21 23 46 | | MAY . | 18 16 43 | 19 3 51 |
| | JUNE . | 20 14 17 | 20 6 53 | | JUNE . | 17 5 27 | 17 14 23 |
| | JULY . | 20 3 1 | 19 15 18 | | JULY . | 16 18 11 | 16 23 14 |
| | AUG. . | 18 15 45 | 18 2 1 | | AUG. . | { 15 6 55 | 15 7 23 |
| | SEPT. . | 17 4 29 | 16 15 43 | | ○ | { 30 1 17 | 29 13 26 |
| | OCT. . | { 16 17 13 | 16 8 23 | | SEPT. . | 13 19 39 | 13 15 47 |
| | ○ | { 31 11 35 | 31 11 49 | | OCT. . | 13 8 23 | 13 1 11 |
| | NOV. . | 15 5 57 | 15 3 14 | | NOV. . | 11 21 7 | 11 12 6 |
| | DEC. . | 14 18 41 | 14 22 46 | | DEC. . | 11 9 51 | 11 0 44 |
| 655. D. 18 13 42 | JAN. . | 13 7 25 | 13 17 19 | 658. G. 18 7 8 | JAN. . | 9 22 36 | 9 15 6 |
| | FEB. . | 11 20 9 | 12 9 31 | | FEB. . | { 8 11 20 | 8 6 51 |
| | MAR. . | 13 8 53 | 13 22 42 | | ○ | { 23 5 42 | 23 15 43 |
| | APRIL | { 11 21 37 | 12 8 57 | | MAR. . | 10 0 4 | 9 23 29 |
| | ○ | { 26 15 59 | 26 11 40 | | APRIL | 8 12 48 | 8 16 11 |
| | MAY . | 11 10 21 | 11 16 59 | | MAY . | 8 1 32 | 8 8 5 |
| | JUNE . | 9 23 5 | 9 23 48 | | JUNE . | 6 14 16 | 6 22 23 |
| | JULY . | 9 11 49 | 9 6 31 | | JULY . | 6 3 0 | 6 10 53 |
| | AUG. . | 8 0 33 | 7 14 14 | | AUG. . | { 4 15 44 | 4 21 46 |
| | SEPT. . | 6 13 17 | 5 23 57 | | ○ | { 19 10 6 | 18 20 59 |
| | OCT. . | { 6 2 1 | 5 12 25 | | SEPT. . | 3 4 28 | 3 7 41 |
| | ○ | { 20 20 23 | 21 2 4 | | OCT. . | 2 17 12 | 2 17 22 |
| | NOV. . | 4 14 45 | 4 3 53 | | NOV. . | { 1 5 56 | 1 3 26 |
| | DEC. . | 4 3 29 | 3 21 53 | | | { 30 18 40 | 30 14 10 |
| | | | | | DEC. . | 30 7 24 | 30 1 41 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---|--|--|--|---|--|---|
| A.D. 659. F. March. <i>d. h. m.</i> 18 12 57 | JAN. . ○ FEB. . MAR. . APRIL MAY . JUNE . JULY . ○ AUG. . SEPT. . OCT. . NOV. . DEC. . | <i>d. h. m.</i> 28 20 8 (12 14 30 27 8 52 28 21 37 27 10 21 26 23 5 25 11 49 25 0 38 { 8 18 55 23 13 17 22 2 1 21 14 45 20 3 29 19 16 13 | <i>d. h. m.</i> 28 14 2 13 4 9 27 3 16 28 17 31 27 8 36 27 0 4 25 15 18 25 5 44 8 6 46 23 19 2 22 7 17 21 18 48 20 5 56 19 16 51 | A.D. 662. B. March. <i>d. h. m.</i> 18 6 23 | JAN. . FEB. . MAR. . APRIL MAY . ○ JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | <i>d. h. m.</i> 25 11 18 24 0 2 25 12 46 24 1 30 23 14 14 { 7 8 36 22 2 58 21 15 42 20 4 26 18 17 10 18 5 54 16 18 38 { 1 13 0 16 7 22 | <i>d. h. m.</i> 25 21 20 24 7 33 25 16 12 23 23 56 23 7 41 7 18 8 21 16 29 21 3 21 19 16 55 18 9 11 18 3 25 16 22 19 1 6 7 16 16 25 |
| 660. E.D. 17 18 46 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . ○ | 18 4 57 16 17 41 17 6 25 15 19 9 15 7 53 13 20 37 13 9 21 11 22 5 10 10 49 9 23 33 8 12 17 { 8 1 1 22 19 23 | 18 3 34 16 14 13 17 1 6 15 12 46 15 1 40 13 15 56 13 7 21 11 23 13 10 14 51 10 5 42 8 19 28 8 8 3 22 14 14 | 663. A. 18 12 12 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . JULY . AUG. . SEPT. . OCT. . NOV. . DEC. . | 14 20 7 13 8 51 14 21 35 13 10 19 12 23 3 11 11 47 11 0 31 9 13 15 8 1 59 7 14 43 6 3 27 5 16 11 | 15 8 29 13 21 51 15 8 30 13 16 59 13 0 7 11 6 56 10 14 32 9 0 1 7 12 14 7 3 34 5 21 33 5 17 0 |
| 661. C. 18 0 85 | JAN. . FEB. . MAR. . APRIL MAY . JUNE . ○ JULY . AUG. . SEPT. . OCT. . NOV. . ○ DEC. . | 6 13 46 5 2 30 6 15 14 5 3 58 4 16 42 { 8 5 26 17 23 48 2 18 10 { 1 6 54 30 19 38 29 8 22 28 21 6 27 9 50 { 12 4 12 26 22 34 | 6 19 28 5 5 44 6 15 8 5 0 8 4 9 31 2 20 11 18 7 23 { 2 8 47 31 23 32 30 16 3 29 9 27 29 2 42 27 18 48 11 18 36 27 9 7 | 664. G.F. 17 18 1 | JAN. . FEB. . MAR. . APRIL ○ MAY . JUNE . JULY . AUG. . SEPT. . ○ OCT. . NOV. . DEC. . | 4 4 56 2 17 40 3 6 24 { 1 19 8 16 13 30 { 1 7 52 30 20 36 29 9 20 28 22 4 27 10 48 25 23 32 { 10 17 54 25 12 16 24 1 0 23 13 44 | 4 12 17 3 5 47 3 20 25 2 8 0 16 8 7 1 16 57 31 0 13 29 6 53 28 14 1 26 22 42 25 9 49 10 23 57 24 23 51 23 16 43 23 11 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 665. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 668. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 22 2 28 | 22 6 46 | March. | JAN. . | 19 17 38 | 19 12 2 |
| <i>d. h. m.</i> | FEB. . | 20 15 12 | 21 0 58 | <i>d. h. m.</i> | ○ | 3 12 0 | 4 1 11 |
| 17 23 50 | MAR. . | 22 3 56 | 22 16 46 | 17 17 16 | FEB. . | 18 6 22 | 18 0 34 |
| | ○ | 5 22 18 | 5 16 55 | | MAR. . | 18 19 6 | 18 13 59 |
| | APRIL | 20 16 40 | 21 5 37 | | APRIL | 17 7 50 | 17 4 24 |
| | MAY . | 20 5 24 | 20 15 43 | | MAY . | 16 20 34 | 16 19 34 |
| | JUNE . | 18 18 8 | 18 23 50 | | JUNE . | 15 9 18 | 15 10 59 |
| | JULY . | 18 6 52 | 18 7 5 | | JULY . | 14 22 2 | 15 1 59 |
| | AUG. . | 16 19 36 | 16 14 29 | | ○ | 29 16 24 | 29 6 4 |
| | SEPT. . | 15 8 20 | 14 23 3 | | AUG. . | 13 10 46 | 13 16 5 |
| | ○ | 30 2 42 | 30 6 17 | | SEPT. . | 11 23 30 | 12 5 8 |
| | OCT. . | 14 21 4 | 14 9 29 | | OCT. . | 11 12 14 | 11 17 16 |
| | NOV. . | 13 9 48 | 12 22 17 | | NOV. . | 10 0 58 | 10 4 47 |
| | DEC. . | 12 22 32 | 12 13 27 | | DEC. . | 9 18 42 | 9 15 54 |
| 666. | JAN. . | 11 11 17 | 11 6 34 | 669. | JAN. . | 8 2 27 | 8 2 40 |
| D. | FEB. . | 10 0 1 | 10 0 41 | G. | ○ | 22 20 49 | 23 4 17 |
| 18 5 39 | MAR. . | 11 12 45 | 11 18 33 | 17 23 5 | FEB. . | 6 15 11 | 6 13 9 |
| | ○ | 26 7 7 | 26 7 46 | | MAR. . | 8 3 55 | 7 23 36 |
| | APRIL | 10 1 29 | 10 10 59 | | APRIL | 6 16 39 | 6 10 31 |
| | MAY . | 9 14 13 | 10 1 10 | | MAY . | 6 5 23 | 5 22 30 |
| | JUNE . | 8 2 57 | 8 12 53 | | JUNE . | 4 18 7 | 4 11 55 |
| | JULY . | 7 15 41 | 7 22 36 | | JULY . | 4 6 51 | 4 2 47 |
| | AUG. . | 6 4 25 | 6 7 9 | | ○ | 19 1 13 | 18 22 35 |
| | SEPT. . | 4 17 9 | 4 15 32 | | AUG. . | 2 19 35 | 2 18 37 |
| | ○ | 19 11 31 | 19 6 44 | | SEPT. . | 1 8 19 | 1 10 42 |
| | OCT. . | 4 5 53 | 4 0 33 | | ○ | 30 21 3 | 1 2 17 |
| | NOV. . | 2 18 37 | 2 10 48 | | OCT. . | 30 9 47 | 30 16 54 |
| | DEC. . | 2 7 21 | 1 22 35 | | NOV. . | 28 22 31 | 29 6 17 |
| | | 31 20 5 | 31 11 58 | | DEC. . | 28 11 15 | 28 18 20 |
| 667. | JAN. . | 30 8 49 | 30 2 49 | 670. | ○ | 12 5 38 | 12 3 35 |
| C. | FEB. . | 28 21 34 | 28 18 51 | F. | JAN. . | 27 0 0 | 27 5 6 |
| 18 11 28 | MAR. . | 30 10 18 | 30 11 22 | 18 4 54 | FEB. . | 25 12 44 | 25 14 42 |
| | APRIL | 28 23 2 | 29 3 37 | | MAR. . | 27 1 23 | 26 23 35 |
| | MAY . | 28 11 46 | 28 18 45 | | APRIL | 25 14 12 | 25 8 27 |
| | JUNE . | 27 0 30 | 27 8 15 | | MAY . | 25 2 56 | 24 18 10 |
| | JULY . | 26 13 14 | 26 20 5 | | JUNE . | 23 15 40 | 23 5 37 |
| | AUG. . | 25 1 58 | 25 6 40 | | ○ | 8 10 2 | 8 15 13 |
| | SEPT. . | 23 14 42 | 23 16 39 | | JULY . | 23 4 24 | 22 19 17 |
| | OCT. . | 23 3 26 | 23 2 41 | | AUG. . | 21 17 8 | 21 11 5 |
| | NOV. . | 21 16 10 | 21 13 10 | | SEPT. . | 20 5 52 | 20 4 23 |
| | DEC. . | 21 4 54 | 21 0 17 | | OCT. . | 19 18 36 | 19 22 4 |
| | | | | | NOV. . | 18 7 20 | 18 15 6 |
| | | | | | DEC. . | 17 20 4 | 18 6 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 671. E. March. <i>d. h. m.</i> 18 10 48 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 674. A. March. <i>d. h. m.</i> 18 4 9 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 16 8 48 | 16 19 47 | | JAN. . | 12 23 58 | 13 1 6 |
| | FEB. . | 14 21 32 | 15 6 54 | | FEB. . | 11 12 42 | 11 19 53 |
| | MAR. . | 16 10 16 | 16 16 7 | | MAR. . | 13 1 26 | 13 12 54 |
| | APRIL | 14 23 0 | 15 0 0 | | APRIL | 11 14 10 | 12 3 10 |
| | MAY . | 14 11 44 | 14 7 27 | | MAY . | 11 2 54 | 11 14 34 |
| | JUNE . | 13 0 28 | 12 15 29 | | JUNE . | 9 15 38 | 9 23 36 |
| | JULY . | 12 13 12 | 12 1 10 | | JULY . | 9 4 22 | 9 7 14 |
| | AUG. . | 11 1 56 | 10 13 19 | | AUG. . | 7 17 6 | 7 14 35 |
| | SEPT. . | 9 14 40 | 9 4 22 | | SEPT. . | 6 5 50 | 5 22 37 |
| | OCT. . | 9 3 24 | 8 21 54 | | OCT. . | 5 18 34 | 5 8 11 |
| | NOV. . | 7 16 8 | 7 16 48 | | NOV. . | 4 7 18 | 3 19 50 |
| | ○ | 22 10 30 | 22 4 52 | | DEC. . | 3 20 2 | 3 9 49 |
| | DEC. . | 7 4 52 | 7 11 38 | | | | |
| 672. D.C. 17 16 32 | JAN. . | 5 17 37 | 6 4 54 | 675. G. 18 9 58 | JAN. . | { 2 8 47 31 21 31 | 2 1 55 31 19 27 |
| | FEB. . | 4 6 21 | 4 19 38 | | FEB. . | ... | ... |
| | MAR. . | 4 19 5 | 5 7 31 | | MAR. ○ | { 2 10 15 17 4 37 | 2 13 22 17 7 37 |
| | APRIL | 3 7 49 | 3 16 52 | | | { 31 22 59 30 11 43 | { 1 6 30 30 21 48 |
| | MAY . | { 2 20 33 17 14 55 | 3 0 27 17 17 8 | | APRIL | 30 11 43 | 30 21 48 |
| | ○ | 1 9 17 | 1 7 13 | | MAY . | 30 0 27 | 30 10 45 |
| | JUNE . | { 30 22 1 80 10 45 | 30 14 16 29 22 42 | | JUNE . | 28 13 11 | 28 21 30 |
| | JULY . | 80 10 45 | 29 22 42 | | JULY . | 28 1 55 | 28 6 42 |
| | AUG. . | 28 23 29 | 28 9 31 | | AUG. . | 26 14 39 | 26 15 16 |
| | SEPT. . | 27 12 13 | 26 23 23 | | ○ | { 10 9 1 25 3 23 | 10 1 36 25 0 5 |
| | OCT. . | 27 0 57 | 26 16 12 | | SEPT. . | 25 3 23 | 25 0 5 |
| | ○ | { 10 19 19 25 13 41 | 10 20 39 25 11 10 | | OCT. . | 24 16 7 | 24 9 51 |
| | NOV. . | 25 13 41 | 25 11 10 | | NOV. . | 23 4 51 | 22 20 54 |
| | DEC. . | 25 2 25 | 25 6 45 | | DEC. . | 22 17 35 | 22 9 25 |
| 673. H. 17 22 21 | JAN. . | 28 15 10 | 24 1 17 | 676. F.E. 17 15 47 | JAN. . | 21 6 19 | 20 23 23 |
| | FEB. . | 22 3 54 | 22 17 23 | | FEB. . | 19 19 3 | 19 14 35 |
| | MAR. . | 23 16 38 | 24 6 24 | | ○ | { 5 13 25 20 7 47 | 5 23 55 20 6 40 |
| | APRIL | 22 5 22 | 22 16 31 | | MAR. . | 18 20 31 | 18 22 55 |
| | ○ | { 6 23 44 21 18 6 | 6 18 27 22 0 28 | | APRIL | 18 20 31 | 18 22 55 |
| | MAY . | { 21 18 6 20 6 50 | 22 0 28 20 7 17 | | MAY . | 18 9 15 | 18 14 36 |
| | JUNE . | 20 6 50 | 20 7 17 | | JUNE . | 16 21 59 | 17 5 2 |
| | JULY . | 19 19 34 | 19 14 7 | | JULY . | 16 10 43 | 16 17 51 |
| | AUG. . | 18 8 18 | 17 22 0 | | AUG. . | { 14 23 27 29 17 49 | 15 5 14 29 4 20 |
| | SEPT. . | 16 21 2 | 16 7 55 | | ○ | 29 17 49 | 29 4 20 |
| | OCT. . | { 16 9 46 31 4 8 | 15 20 32 31 10 35 | | SEPT. . | 13 12 11 | 13 15 41 |
| | ○ | 31 4 8 | 31 10 35 | | OCT. . | 13 0 55 | 13 1 53 |
| | NOV. . | 14 22 30 | 14 12 3 | | NOV. . | 11 13 39 | 11 12 17 |
| | DEC. . | 14 11 14 | 14 5 58 | | DEC. . | 11 2 23 | 10 23 7 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (+ Full Rel.) | True New Moon. (+ Full Rel.) | Mean Vernal Equinox. | Month. | Mean New Moon. (+ Full Rel.) | True New Moon. (+ Full Rel.) |
|----------------------------|-----------|------------------------------------|------------------------------------|----------------------------|-----------|------------------------------------|------------------------------------|
| A.D. 677. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 680. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | 0 15 7 | 0 10 27 | A.D. 680. | JAN. . | 7 0 17 | 7 17 11 |
| March. | FEB. . | 8 8 51 | 7 23 19 | March. | FEB. . | 5 19 1 | 6 5 51 |
| <i>d. h. m.</i> | C. | (22 22 18 | 23 12 0 | <i>d. h. m.</i> | MAR. . | 6 7 46 | 6 15 49 |
| 17 21 191 | MAR. . | 0 10 191 | 0 11 0 | 17 15 2 | APRIL . | 4 20 190 | 5 0 6 |
| | APRIL . | 8 5 20 | 8 0 17 | | MAY . | 4 9 11 | 4 7 31 |
| | MAY . | 7 18 4 | 7 15 14 | | JUNE . | (2 21 56 | 2 15 0 |
| | JUNE . | 6 0 48 | 6 0 20 | | C. | (17 16 29 | 18 0 57 |
| | JULY . | 5 10 12 | 5 21 50 | | JULY . | (2 10 42 | 1 23 19 |
| | AUG. . | 4 8 16 | 4 12 18 | | Aug. . | (31 28 26 | 31 10 26 |
| | C. | (19 2 18 | 18 14 28 | | NOV. . | 30 12 10 | 30 0 8 |
| | SEPT. . | 2 21 0 | 2 2 10 | | NOV. . | 29 0 54 | 29 16 16 |
| | OCT. . | (2 9 44 | 2 15 22 | | OCT. . | 28 18 39 | 28 11 9 |
| | NOV. . | (31 22 29 | (1 8 25 | | NOV. . | 27 2 22 | 27 6 19 |
| | NOV. . | 30 11 12 | 30 14 51 | | C. | (11 20 44 | 11 15 1 |
| | DEC. . | 29 23 56 | 30 1 48 | | DEC. . | (26 18 6 | 27 0 38 |
| 678. | JAN. . | 28 12 41 | 28 12 17 | 681. | JAN. . | 25 8 51 | 25 16 45 |
| C. | FEB. . | 27 1 25 | 26 23 27 | P. | FEB. . | 23 16 35 | 24 5 59 |
| 18 8 25 | MAR. . | 26 14 9 | 26 8 47 | 17 20 51 | MAR. . | 25 5 19 | 25 16 25 |
| | APRIL . | 27 2 58 | 26 19 54 | | APRIL . | 23 18 8 | 24 0 40 |
| | MAY . | 26 15 37 | 26 8 22 | | MAY . | 23 6 47 | 23 7 37 |
| | JUNE . | 25 4 21 | 24 22 27 | | JUNE . | 21 19 31 | 21 14 22 |
| | JULY . | 24 17 5 | 24 18 55 | | JULY . | 21 8 15 | 20 21 56 |
| | AUG. . | 23 5 40 | 23 6 10 | | AUG. . | 19 20 59 | 19 7 32 |
| | SEPT. . | 21 18 33 | 21 22 22 | | SEPT. . | 18 0 43 | 17 19 55 |
| | OCT. . | 21 7 17 | 21 18 49 | | OCT. . | 17 22 27 | 17 11 23 |
| | NOV. . | 19 20 1 | 20 4 4 | | NOV. . | 16 11 11 | 16 5 28 |
| | DEC. . | 19 8 45 | 19 16 54 | | DEC. . | 15 23 55 | 16 0 59 |
| | C. | (8 8 7 | 2 22 18 | | | | |
| 679. | JAN. . | (17 21 20 | 18 4 15 | 682. | JAN. . | 14 12 130 | 14 30 12 |
| R. | FEB. . | 16 10 18 | 16 14 10 | R. | FEB. . | 13 1 23 | 13 13 36 |
| 18 9 14 | MAR. . | 17 22 57 | 17 23 18 | 18 2 40 | MAR. . | 14 14 7 | 15 4 0 |
| | APRIL . | 16 11 41 | 16 7 40 | | APRIL . | 13 2 51 | 13 15 31 |
| | MAY . | 16 0 25 | 15 16 43 | | MAY . | 12 15 35 | 13 0 21 |
| | JUNE . | (14 18 0 | 14 8 8 | | JUNE . | 11 4 19 | 11 7 19 |
| | C. | (29 7 31 | 29 14 45 | | JULY . | 10 17 8 | 10 14 23 |
| | JULY . | 14 1 53 | 13 15 31 | | AUG. . | 9 5 47 | 8 21 43 |
| | AUG. . | 12 14 37 | 12 6 21 | | SEPT. . | 7 18 31 | 7 6 36 |
| | SEPT. . | 11 3 21 | 10 23 10 | | OCT. . | (7 7 15 | 6 17 55 |
| | OCT. . | 10 16 5 | 10 17 8 | | C. | (22 1 37 | 22 8 12 |
| | NOV. . | 9 4 49 | 9 10 46 | | NOV. . | 5 19 59 | 5 8 4 |
| | DEC. . | (8 17 33 | 9 8 15 | | DEC. . | 5 8 43 | 5 0 50 |
| | C. | (23 11 55 | 23 8 8 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 683. D. March. d. h. m. 18 8 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 686. G. March. d. h. m. 18 1 55 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 3 21 28 | 3 19 28 | | JAN. . | 30 1 22 | 29 20 34 |
| | FEB. . | 2 10 12 | 2 14 28 | | ○ | { 18 19 44 | 14 9 11 |
| | MAR. . | 3 22 56 | 4 8 23 | | FEB. . | { 28 14 6 | 28 8 32 |
| | APRIL | { 2 11 40 | 3 0 0 | | MAR. . | 30 2 50 | 29 21 20 |
| | ○ | { 17 6 2 | 17 0 26 | | APRIL | 28 15 34 | 28 11 12 |
| | MAY . | { 2 0 24 | 2 12 46 | | MAY . | 28 4 18 | 28 2 4 |
| | JUNE . | 31 13 8 | 31 22 55 | | JUNE . | 26 17 2 | 26 17 25 |
| | JULY . | 30 1 52 | 30 7 13 | | JULY . | 26 5 46 | 26 8 42 |
| | AUG. . | 29 14 36 | 29 14 43 | | ○ | { 10 0 8 | 9 13 40 |
| | SEPT. . | 28 3 20 | 27 22 27 | | AUG. . | { 24 18 30 | 24 23 20 |
| | SEPT. . | 26 16 4 | 26 7 20 | | SEPT. . | 23 7 14 | 23 12 59 |
| | ○ | { 11 10 26 | 11 14 0 | | OCT. . | 22 19 58 | 23 1 42 |
| | OCT. . | { 26 4 48 | 25 18 0 | | NOV. . | 21 8 42 | 21 13 37 |
| | NOV. . | 24 17 32 | 24 6 49 | | DEC. . | 20 21 26 | 21 0 53 |
| | DEC. . | 24 6 16 | 23 21 48 | | | | |
| 684. C.B. 17 14 18 | JAN. . | 22 19 1 | 22 14 32 | 687. F. 18 7 44 | JAN. . | 19 10 11 | 19 11 30 |
| | FEB. . | 21 7 45 | 21 8 11 | | ○ | { 3 4 33 | 3 12 2 |
| | MAR. . | 21 20 29 | 22 1 38 | | FEB. . | { 17 22 55 | 17 21 35 |
| | ○ | { 5 14 51 | 5 15 39 | | MAR. . | 19 11 39 | 19 7 31 |
| | APRIL | { 20 9 13 | 20 17 49 | | APRIL | 18 0 23 | 17 17 53 |
| | MAY . | 19 21 57 | 20 7 57 | | MAY . | 17 13 7 | 17 5 23 |
| | JUNE . | 18 10 41 | 18 19 51 | | JUNE . | 16 1 51 | 15 18 30 |
| | JULY . | 17 23 25 | 18 5 54 | | JULY . | { 15 14 35 | 15 9 20 |
| | AUG. . | 16 12 9 | 16 14 52 | | ○ | { 30 8 57 | 30 6 15 |
| | SEPT. . | { 15 0 53 | 14 23 42 | | AUG. . | 14 3 19 | 14 1 25 |
| | ○ | { 29 19 15 | 29 14 11 | | SEPT. . | 12 16 3 | 12 17 58 |
| | OCT. . | 14 18 37 | 14 9 8 | | OCT. . | 12 4 47 | 12 10 10 |
| | NOV. . | 13 2 21 | 12 19 37 | | NOV. . | 10 17 31 | 11 1 19 |
| | DEC. . | 12 15 5 | 12 7 24 | | DEC. . | 10 6 15 | 10 15 3 |
| 685. A. 17 20 7 | JAN. . | 11 3 49 | 10 20 28 | 688. E.D. 17 13 33 | JAN. . | { 8 18 59 | 9 3 10 |
| | FEB. . | 9 16 33 | 9 10 49 | | ○ | { 23 13 21 | 23 11 25 |
| | MAR. . | 11 5 17 | 11 2 14 | | FEB. . | 7 7 43 | 7 13 43 |
| | APRIL | 9 18 1 | 9 18 14 | | MAR. . | 7 20 27 | 7 22 57 |
| | MAY . | 9 6 45 | 9 10 10 | | APRIL | 6 9 11 | 6 7 24 |
| | JUNE . | 7 19 29 | 8 1 17 | | MAY . | 5 21 55 | 5 15 49 |
| | JULY . | 7 8 13 | 7 15 3 | | JUNE . | 4 10 39 | 4 1 12 |
| | AUG. . | 5 20 57 | 6 3 20 | | JULY . | { 3 23 23 | 3 12 26 |
| | SEPT. . | 4 9 41 | 4 14 27 | | ○ | { 13 17 45 | 18 22 37 |
| | OCT. . | 3 22 25 | 4 0 58 | | AUG. . | 2 12 7 | { 2 2 5 |
| | NOV. . | 2 11 9 | 2 11 25 | | SEPT. . | { 1 0 51 | { 31 18 5 |
| | DEC. . | { 1 23 53 | 1 22 7 | | OCT. . | { 30 13 35 | 30 11 45 |
| | | { 31 12 37 | 31 9 10 | | NOV. . | 30 2 19 | 30 5 56 |
| | | | | | DEC. . | 23 15 3 | 23 23 22 |
| | | | | | | 23 3 47 | 23 15 1 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (^o Full El.) | True New Moon. (^o Full El.) | Mean Vernal Equinox. | Month. | Mean New Moon. (^o Full El.) | True New Moon. (^o Full El.) |
|--|---------|---|---|--|---------|---|---|
| A.D. 689. C. March. d. h. m. 17 19 21 | | d. h. m. | d. h. m. | A.D. 692. D.F. March. d. h. m. 17 12 48 | | d. h. m. | d. h. m. |
| | JAN. . | 26 16 32 | 27 4 20 | | JAN. . | 24 7 42 | 24 8 54 |
| | FEB. . | 25 5 16 | 25 15 14 | | FEB. . | 22 30 26 | 23 3 22 |
| | MAR. . | 26 18 0 | 27 0 8 | | MAR. . | 23 9 10 | 23 20 8 |
| | APRIL . | 25 6 44 | 25 7 42 | | APRIL . | 21 21 54 | 22 10 17 |
| | MAY . | 24 10 28 | 24 14 53 | | MAY . | 21 10 38 | 21 21 42 |
| | JUNE . | 23 8 12 | 22 22 13 | | JUNE . | 19 23 22 | 20 6 57 |
| | JULY . | 22 20 56 | 22 8 19 | | JULY . | 19 12 6 | 19 14 45 |
| | AUG. . | 21 9 40 | 20 30 31 | | AUG. . | 18 0 50 | 17 22 25 |
| | SEPT. . | 19 22 24 | 19 11 45 | | SEPT. . | 16 18 34 | 16 6 49 |
| | OCT. . | 19 11 8 | 19 5 31 | | OCT. . | 16 2 18 | 15 16 41 |
| | NOV. . | 17 23 52 | 18 0 42 | | NOV. . | 14 15 2 | 14 4 28 |
| | ○ | 2 18 14 | 2 18 40 | | DEC. . | 14 8 46 | 13 18 19 |
| | DEC. . | 17 12 36 | 17 19 45 | | | | |
| 690. B. 18 1 10 | JAN. . | 16 1 20 | 16 18 6 | 693. B. 17 18 37 | JAN. . | 12 16 30 | 12 10 4 |
| | FEB. . | 14 14 4 | 15 8 46 | | FEB. . | 11 5 14 | 11 5 8 |
| | MAR. . | 16 2 48 | 16 15 28 | | MAR. . | 12 17 58 | 12 30 34 |
| | APRIL . | 14 15 32 | 15 0 36 | | ○ | 27 12 20 | 27 15 38 |
| | MAY . | 14 4 16 | 14 7 59 | | APRIL . | 11 6 42 | 11 13 21 |
| | ○ | 28 23 38 | 28 23 35 | | MAY . | 10 19 26 | 11 4 31 |
| | JUNE . | 12 17 0 | 12 14 39 | | JUNE . | 9 8 10 | 9 17 35 |
| | JULY . | 12 5 44 | 11 21 42 | | JULY . | 8 30 54 | 9 4 37 |
| | AUG. . | 10 18 28 | 10 6 12 | | AUG. . | 7 9 38 | 7 14 14 |
| | SEPT. . | 9 7 12 | 8 17 10 | | SEPT. . | 6 23 22 | 6 23 16 |
| | OCT. . | 8 19 56 | 8 7 10 | | ○ | 20 16 44 | 20 8 52 |
| | NOV. . | 7 8 40 | 7 0 7 | | OCT. . | 5 11 6 | 5 8 31 |
| | ○ | 22 8 2 | 22 5 33 | | NOV. . | 5 23 50 | 5 18 37 |
| | DEC. . | 6 21 24 | 6 19 9 | | DEC. . | 5 12 34 | 5 5 46 |
| 691. A. 18 6 59 | JAN. . | 5 10 9 | 5 14 42 | 694. B. 18 0 20 | JAN. . | 2 1 19 | 1 18 6 |
| | FEB. . | 3 22 53 | 4 9 7 | | ○ | 31 14 8 | 31 7 30 |
| | MAR. . | 5 11 37 | 6 1 8 | | FEB. . | ... | ... |
| | APRIL . | 4 0 21 | 4 13 56 | | ○ | 2 2 47 | 1 22 13 |
| | MAY . | 3 13 5 | 3 23 50 | | MAR. . | 16 21 9 | 17 7 59 |
| | ○ | 18 7 27 | 18 1 9 | | ○ | 31 15 31 | 31 13 42 |
| | JUNE . | 2 1 49 | 2 7 51 | | APRIL . | 30 4 15 | 30 5 35 |
| | ○ | 1 14 33 | 1 14 45 | | MAY . | 29 16 59 | 29 21 7 |
| | JULY . | 31 3 17 | 30 21 44 | | JUNE . | 28 5 43 | 28 11 41 |
| | AUG. . | 29 16 1 | 29 5 51 | | JULY . | 27 18 27 | 28 0 54 |
| | SEPT. . | 28 4 45 | 27 16 1 | | AUG. . | 26 7 11 | 26 12 48 |
| | OCT. . | 27 17 29 | 27 4 47 | | ○ | 10 1 33 | 9 11 50 |
| | ○ | 11 11 51 | 11 19 8 | | SEPT. . | 24 19 55 | 24 23 50 |
| | NOV. . | 26 6 13 | 25 20 17 | | OCT. . | 24 8 39 | 24 10 31 |
| | DEC. . | 25 18 57 | 25 14 2 | | NOV. . | 23 21 23 | 23 21 13 |
| | | | | | DEC. . | 22 10 7 | 22 8 5 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 695. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 698. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 18 6 14 | JAN. . | 20 22 52 | 20 19 9 | March. <i>d. h. m.</i> 17 23 41 | JAN. . | { 2 19 40 17 14 2 | 2 11 40 18 2 14 |
| | FEB. . | 19 11 36 | 19 6 33 | | FEB. . | 16 2 46 | 16 14 15 |
| | ○ | { 6 5 58 | 6 20 1 | | MAR. . | 17 15 30 | 17 23 56 |
| | MAR. . | { 21 0 20 | 20 18 37 | | APRIL | 16 4 14 | 16 7 55 |
| | APRIL | 19 13 4 | 19 7 39 | | MAY . | 15 16 58 | 15 15 2 |
| | MAY . | 19 1 48 | 18 21 49 | | JUNE . | { 14 5 42 29 0 4 | 13 22 19 29 7 45 |
| | JUNE . | 17 14 32 | 17 12 55 | | ○ | { 29 0 4 | 29 7 45 |
| | JULY . | 17 3 16 | 17 4 25 | | JULY . | 13 18 26 | 13 6 51 |
| | AUG. . | { 15 16 0 | 15 19 39 | | AUG. . | 12 7 10 | 11 17 42 |
| | ○ | { 30 10 22 | 29 22 12 | | SEPT. . | 10 19 54 | 10 7 29 |
| | SEPT. . | 14 4 44 | 14 10 6 | | OCT. . | 10 8 38 | 10 0 10 |
| | OCT. . | 13 17 28 | 13 23 34 | | Nov. . | 8 21 22 | 8 18 57 |
| | Nov. . | 12 6 12 | 12 12 6 | | DEC. . | { 8 10 6 23 4 28 | 8 14 22 22 23 54 |
| | DEC. . | 11 18 56 | 11 23 48 | | ○ | { 23 4 28 | 22 23 54 |
| 696. B.A. 17 12 3 | JAN. . | 10 7 40 | 10 10 41 | 699. E. 18 5 30 | JAN. . | 6 22 50 | 7 8 47 |
| | FEB. . | 8 20 24 | 8 20 52 | | FEB. . | 5 11 34 | 6 0 51 |
| | MAR. . | 9 9 8 | 9 6 35 | | MAR. . | 7 0 18 | 7 13 57 |
| | APRIL | 7 21 52 | 7 16 23 | | APRIL | 5 13 2 | 6 0 11 |
| | MAY . | 7 10 36 | 7 2 59 | | MAY . | 5 1 46 | 5 8 14 |
| | JUNE . | 5 23 20 | 5 15 4 | | JUNE . | { 3 14 30 18 8 52 | 3 15 5 18 10 31 |
| | JULY . | 5 12 4 | 5 5 1 | | ○ | { 18 8 52 | 18 10 31 |
| | AUG. . | 4 0 48 | 3 20 36 | | JULY . | 3 3 14 | 2 21 46 |
| | SEPT. . | 2 13 32 | 2 13 13 | | AUG. . | { 1 15 58 31 4 42 | 1 5 27 30 15 11 |
| | ○ | { 2 2 16 | 2 5 58 | | SEPT. . | 29 17 26 | 29 3 43 |
| | Oct. . | { 31 15 0 | 31 21 59 | | OCT. . | 29 6 10 | 28 19 18 |
| | Nov. . | 30 8 44 | 30 12 41 | | Nov. . | 27 18 54 | 27 13 26 |
| | DEC. . | 29 16 28 | 30 1 41 | | DEC. . | 27 7 38 | 27 8 56 |
| 697. G. 17 17 52 | ○ | { 18 10 51 | 18 6 20 | 700. D.C. 17 11 19 | JAN. . | 25 20 23 | 26 4 3 |
| | JAN. . | { 28 5 13 | 28 12 57 | | FEB. . | 24 9 7 | 24 21 17 |
| | FEB. . | 26 17 57 | 26 22 39 | | MAR. . | 24 21 51 | 25 11 38 |
| | MAR. . | 28 6 41 | 28 7 13 | | APRIL | 23 10 35 | 23 22 57 |
| | APRIL | 26 19 25 | 26 15 19 | | MAY . | 22 23 19 | 23 7 46 |
| | MAY . | 26 8 9 | 25 23 55 | | JUNE . | 21 12 3 | 21 15 4 |
| | JUNE . | 24 20 53 | 24 10 0 | | JULY . | 21 0 47 | 20 21 57 |
| | ○ | { 9 15 15 | 9 21 59 | | AUG. . | 19 13 31 | 19 5 32 |
| | JULY . | { 22 9 37 | 23 22 23 | | SEPT. . | 18 2 15 | 17 14 42 |
| | AUG. . | 22 22 21 | 22 13 19 | | OCT. . | 17 14 59 | 17 2 12 |
| | SEPT. . | 21 11 5 | 21 6 26 | | ○ | { 1 9 21 | 1 16 35 |
| | OCT. . | 20 23 49 | 21 0 44 | | Nov. . | { 16 3 43 | 15 16 22 |
| | Nov. . | 19 12 33 | 19 18 53 | | DEC. . | 15 16 27 | 15 9 2 |
| | DEC. . | 19 1 17 | 19 11 40 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 701. B. March. <i>d. h. m.</i> 17 17 7 | JAN. . | <i>d. h. m.</i> 14 5 12 | <i>d. h. m.</i> 14 3 22 | A.D. 704. F.E. March. <i>d. h. m.</i> 17 10 34 | JAN. . | <i>d. h. m.</i> 11 20 21 | <i>d. h. m.</i> 11 17 59 |
| | FEB. . | 12 17 56 | 12 22 3 | | FEB. . | { 10 9 5 | 10 5 0 |
| | MAR. . | 14 6 40 | 14 15 39 | | ○ | { 25 3 27 | 25 17 0 |
| | APRIL | { 12 19 24 | 13 7 5 | | MAR. . | 10 21 49 | 10 16 23 |
| | ○ | { 27 13 46 | 27 7 53 | | APRIL | 9 10 33 | 9 4 35 |
| | MAY . | 12 8 8 | 12 19 50 | | MAY . | 8 23 17 | 8 17 56 |
| | JUNE . | 10 20 52 | 11 6 5 | | JUNE . | 7 12 1 | 7 8 30 |
| | JULY . | 10 9 36 | 10 14 36 | | JULY . | 7 0 45 | 6 23 55 |
| | AUG. . | 8 22 20 | 8 22 25 | | AUG. . | { 5 13 29 | 5 15 30 |
| | SEPT. . | 7 11 4 | 7 6 32 | | ○ | { 20 7 51 | 19 21 26 |
| | OCT. . | { 6 23 48 | 6 15 47 | | SEPT. . | 4 2 13 | 4 6 39 |
| | ○ | { 21 18 10 | 21 21 49 | | OCT. . | 3 14 57 | 3 20 56 |
| | NOV. . | 5 12 32 | 5 2 39 | | NOV. . | 2 3 41 | 2 10 12 |
| | DEC. . | 5 1 16 | 4 15 27 | | DEC. . | { 1 16 25 | 1 22 28 |
| | | | | | | { 31 5 9 | 31 9 47 |
| 702. A. 17 22 56 | JAN. . | 3 14 0 | 3 6 9 | 705. D. 17 16 23 | JAN. . | 29 17 53 | 29 20 11 |
| | FEB. . | 2 2 44 | 1 22 25 | | ○ | { 13 12 15 | 13 19 36 |
| | MAR. . | 3 15 28 | 3 15 32 | | FEB. . | { 28 6 38 | 28 5 54 |
| | APRIL | { 2 4 12 | 2 8 34 | | MAR. . | 29 19 22 | 29 15 19 |
| | ○ | { 16 22 34 | 16 23 25 | | APRIL | 23 8 6 | 23 1 9 |
| | MAY . | { 1 16 56 | 2 0 31 | | MAY . | 27 20 50 | 27 12 13 |
| | | { 31 5 40 | 31 14 41 | | JUNE . | 26 9 34 | 26 1 7 |
| | JUNE . | 29 18 24 | 30 2 49 | | JULY . | 25 22 18 | 25 15 57 |
| | JULY . | 29 7 8 | 29 13 15 | | ○ | { 9 16 40 | 9 13 59 |
| | AUG. . | 27 19 52 | 27 22 42 | | AUG. . | { 24 11 2 | 24 8 18 |
| | SEPT. . | 26 8 36 | 26 8 1 | | SEPT. . | 22 23 46 | 23 1 21 |
| | ○ | { 11 2 58 | 10 21 37 | | OCT. . | 22 12 30 | 22 18 7 |
| | OCT. . | { 25 21 20 | 25 17 49 | | NOV. . | 21 1 14 | 21 9 46 |
| | NOV. . | 24 10 4 | 24 4 29 | | DEC. . | 20 13 58 | 20 23 46 |
| | DEC. . | 23 22 48 | 23 16 10 | | | | |
| 703. G. 18 4 45 | JAN. . | 22 11 33 | 22 4 55 | 706. C. 17 22 12 | JAN. . | 19 2 43 | 19 11 54 |
| | FEB. . | 21 0 17 | 20 18 42 | | ○ | { 2 21 5 | 2 19 11 |
| | MAR. . | 22 13 1 | 22 9 29 | | FEB. . | { 17 15 27 | 17 22 13 |
| | APRIL | 21 1 45 | 21 1 1 | | MAR. . | 19 4 11 | 19 7 5 |
| | MAY . | 20 14 29 | 20 16 41 | | APRIL | 17 16 55 | 17 15 6 |
| | JUNE . | 19 3 13 | 19 7 48 | | MAY . | 17 5 39 | 16 23 9 |
| | JULY . | 18 15 57 | 18 21 53 | | JUNE . | 15 13 23 | 15 8 15 |
| | AUG. . | 17 4 41 | 17 10 40 | | JULY . | { 15 7 7 | 14 19 20 |
| | SEPT. . | 15 17 25 | 15 22 23 | | ○ | { 30 1 29 | 30 6 7 |
| | OCT. . | 15 6 9 | 15 9 27 | | AUG. . | 13 19 51 | 13 9 2 |
| | NOV. . | 13 18 53 | 13 20 17 | | SEPT. . | 12 8 35 | 12 1 15 |
| | DEC. . | 13 7 37 | 13 7 8 | | OCT. . | 11 21 19 | 11 19 17 |
| | | | | | NOV. . | 10 10 3 | 10 13 54 |
| | | | | | DEC. . | 9 22 47 | 10 7 40 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 707. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 710. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. March. | JAN. . | 8 11 31 | 8 23 29 | E. March. | JAN. . | 5 2 41 | 4 22 4 |
| <i>d. h. m.</i> | FEB. . | 7 0 15 | 7 12 44 | <i>d. h. m.</i> | FEB. . | 3 15 25 | 3 16 33 |
| 18 4 0 | MAR. . | 8 12 59 | 8 23 25 | 17 21 27 | MAR. . | 5 4 9 | 5 10 41 |
| | APRIL . | 7 1 43 | 7 8 11 | | APRIL . | 3 16 53 | 4 3 11 |
| | MAY . | 6 14 27 | 6 15 18 | | MAY . | { 3 5 37 | 3 17 15 |
| | JUNE . | 5 3 11 | 4 22 16 | | ○ | { 17 23 59 | 17 16 8 |
| | JULY . | 4 15 55 | 4 5 59 | | JUNE . | 1 18 21 | 2 4 44 |
| | AUG. . | 3 4 39 | 2 15 35 | | JULY . | { 1 7 5 | 1 14 7 |
| | SEPT. . | 1 17 23 | { 1 3 54 | | | { 30 19 49 | 30 22 19 |
| | ○ | { 1 6 7 | { 30 19 16 | | AUG. . | 29 8 33 | 29 6 23 |
| | OCT. . | { 30 18 51 | 30 13 15 | | SEPT. . | 27 21 17 | 27 15 9 |
| | NOV. . | 29 7 35 | 29 8 38 | | OCT. . | 27 10 1 | 27 1 18 |
| | ○ | { 14 1 57 | 13 22 44 | | NOV. . | 25 22 45 | 25 13 9 |
| | DEC. . | 28 20 19 | 29 3 49 | | DEC. . | 25 11 29 | 25 2 49 |
| 708. | JAN. . | 27 9 4 | 27 21 12 | 711. | JAN. . | 24 0 14 | 23 18 11 |
| A.G. | FEB. . | 25 21 48 | 26 11 45 | D. | FEB. . | 22 12 58 | 22 10 42 |
| 17 9 49 | MAR. . | 26 10 32 | 26 23 17 | 18 3 16 | MAR. . | 24 1 42 | 24 3 38 |
| | APRIL . | 24 23 16 | 25 8 14 | | ○ | { 7 20 4 | 7 23 33 |
| | MAY . | 24 12 0 | 24 15 29 | | APRIL . | { 22 14 26 | 22 20 5 |
| | ○ | { 8 6 22 | 8 6 2 | | MAY . | 22 3 10 | 22 11 10 |
| | JUNE . | { 23 0 44 | 22 22 6 | | JUNE . | 20 15 54 | 21 0 25 |
| | JULY . | 22 13 28 | 22 5 12 | | JULY . | 20 4 38 | 20 11 48 |
| | AUG. . | 21 2 12 | 20 13 53 | | AUG. . | 18 17 22 | 18 21 53 |
| | SEPT. . | 19 14 56 | 19 1 1 | | SEPT. . | 17 6 6 | 17 7 26 |
| | OCT. . | 19 8 40 | 18 15 8 | | OCT. . | 16 18 50 | 16 17 9 |
| | NOV. . | 17 16 24 | 17 8 9 | | NOV. . | 15 7 34 | 15 3 30 |
| | ○ | { 2 10 46 | 2 14 28 | | DEC. . | 14 20 18 | 14 14 39 |
| | DEC. . | { 17 5 8 | 17 3 7 | | | | |
| 709. | JAN. . | 15 17 52 | 15 22 33 | 712. | JAN. . | 13 9 2 | 13 2 43 |
| F. | FEB. . | 14 6 37 | 14 16 48 | C.B. | FEB. . | 11 21 47 | 11 15 44 |
| 17 15 38 | MAR. . | 15 19 21 | 16 8 34 | 17 9 5 | MAR. . | { 12 10 31 | 12 5 44 |
| | APRIL . | 14 8 5 | 14 21 20 | | ○ | { 27 4 53 | 27 15 53 |
| | MAY . | { 13 20 49 | 14 7 16 | | APRIL . | 10 23 15 | 10 20 39 |
| | ○ | { 28 15 11 | 28 7 52 | | MAY . | 10 11 59 | 10 12 8 |
| | JUNE . | 12 9 33 | 12 15 13 | | JUNE . | 9 0 43 | 9 3 35 |
| | JULY . | 11 22 17 | 11 22 16 | | JULY . | 8 13 27 | 8 18 21 |
| | AUG. . | 10 11 1 | 10 5 29 | | AUG. . | 7 2 11 | 7 8 0 |
| | SEPT. . | 8 23 45 | 8 13 54 | | SEPT. . | { 5 14 55 | 5 20 30 |
| | OCT. . | 8 12 29 | 8 0 17 | | ○ | { 20 9 17 | 19 19 31 |
| | NOV. . | { 7 1 13 | 6 13 10 | | OCT. . | 5 3 39 | 5 8 6 |
| | ○ | { 21 19 35 | 22 3 44 | | NOV. . | 3 16 23 | 3 19 15 |
| | DEC. . | 6 13 57 | 6 4 35 | | DEC. . | 3 5 7 | 3 6 10 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (Full Ecl.) | True New Moon (Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (Full Ecl.) | True New Moon (Full Ecl.) |
|---------------------------------------|--------|----------------------------------|---------------------------------|---------------------------------------|--------|----------------------------------|---------------------------------|
| A.D. 713. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 713. K.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 17 14 58 | JAN. | 1 17 51 | 1 16 50 | March. <i>d. h. m.</i> 17 18 20 | JAN. | 14 18 23 | 13 20 8 |
| | FEB. | 31 6 15 | 31 8 45 | | FEB. | 24 21 45 | 20 10 34 |
| | MAR. | ... | ... | | MAR. | 27 10 29 | 27 22 29 |
| | APRIL | 1 19 10 | 1 14 30 | | APRIL | 27 23 18 | 24 7 54 |
| | MAY | 16 13 41 | 17 8 40 | | MAY | 26 11 57 | 26 15 35 |
| | JUNE | 31 8 8 | 31 2 5 | | JUNE | 26 0 41 | 25 22 24 |
| | JULY | 20 20 47 | 20 14 34 | | JULY | 24 18 25 | 24 5 37 |
| | AUG. | 20 9 81 | 20 4 23 | | AUG. | 9 7 47 | 9 14 9 |
| | SEPT. | 27 22 15 | 27 10 22 | | SEPT. | 24 2 9 | 23 14 9 |
| | OCT. | 27 10 50 | 27 11 8 | | OCT. | 22 14 53 | 22 1 4 |
| | NOV. | 25 23 43 | 26 2 44 | | NOV. | 21 8 37 | 20 15 0 |
| | DEC. | 9 18 5 | 9 6 7 | | DEC. | 20 16 21 | 20 7 52 |
| 714. G. | JAN. | 20 15 24 | 20 19 31 | 717. C. | JAN. | 2 12 12 | 2 8 43 |
| | FEB. | 19 4 8 | 19 5 21 | | FEB. | 17 6 34 | 17 16 50 |
| | MAR. | 20 18 52 | 20 14 36 | | MAR. | 15 19 18 | 16 8 49 |
| | APRIL | 19 5 36 | 18 23 53 | | APRIL | 17 8 2 | 17 21 46 |
| | MAY | 18 18 20 | 18 10 1 | | MAY | 15 20 46 | 16 7 50 |
| | JUNE | 17 7 4 | 16 21 48 | | JUNE | 15 9 30 | 15 15 44 |
| | JULY | 16 19 48 | 16 11 34 | | JULY | 13 23 14 | 13 22 31 |
| | AUG. | 15 8 32 | 15 8 25 | | AUG. | 24 16 36 | 24 16 54 |
| | SEPT. | 18 21 16 | 18 20 36 | | SEPT. | 18 10 54 | 18 5 17 |
| | OCT. | 18 10 0 | 18 18 42 | | OCT. | 11 23 42 | 11 13 7 |
| | NOV. | 11 22 44 | 12 6 16 | | NOV. | 10 12 26 | 9 23 1 |
| | DEC. | 11 11 23 | 11 21 18 | | DEC. | 10 1 10 | 9 11 43 |
| 715. F. | JAN. | 10 0 12 | 10 10 25 | 718. H. | JAN. | 6 15 22 | 6 16 50 |
| | FEB. | 8 12 56 | 8 21 32 | | FEB. | 6 4 6 | 6 11 45 |
| | MAR. | 10 1 40 | 10 6 54 | | MAR. | 6 16 50 | 7 4 47 |
| | APRIL | 8 14 24 | 8 15 4 | | APRIL | 5 5 34 | 5 14 56 |
| | MAY | 8 3 8 | 7 22 48 | | MAY | 4 18 14 | 5 6 14 |
| | JUNE | 6 15 52 | 6 7 5 | | JUNE | 3 7 2 | 3 15 4 |
| | JULY | 6 4 30 | 5 16 50 | | JULY | 2 19 46 | 2 22 20 |
| | AUG. | 20 22 54 | 21 5 18 | | AUG. | 1 8 30 | 1 5 37 |
| | SEPT. | 4 17 20 | 4 5 19 | | SEPT. | 30 21 14 | 30 13 34 |
| | OCT. | 3 6 4 | 2 20 24 | | OCT. | 29 9 54 | 29 22 55 |
| | NOV. | 2 18 44 | 2 13 40 | | NOV. | 28 22 42 | 28 10 36 |
| | DEC. | 1 7 32 | 1 8 20 | | DEC. | 12 17 4 | 12 0 50 |
| 716. D. | JAN. | 30 30 16 | 1 3 1 | 719. I. | JAN. | 27 11 26 | 27 0 46 |
| | FEB. | 30 9 0 | 30 20 2 | | FEB. | 27 0 10 | 26 17 12 |
| | MAR. | ... | ... | | MAR. | ... | ... |
| | APRIL | ... | ... | | APRIL | ... | ... |
| | MAY | ... | ... | | MAY | ... | ... |
| | JUNE | ... | ... | | JUNE | ... | ... |
| | JULY | ... | ... | | JULY | ... | ... |
| | AUG. | ... | ... | | AUG. | ... | ... |
| | SEPT. | ... | ... | | SEPT. | ... | ... |
| | OCT. | ... | ... | | OCT. | ... | ... |
| | NOV. | ... | ... | | NOV. | ... | ... |
| | DEC. | ... | ... | | DEC. | ... | ... |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 719. A. March. d. h. m. 18 1 46 | | d. h. m. | d. h. m. | A.D. 722. D. March. d. h. m. 17 19 13 | | d. h. m. | d. h. m. |
| | JAN. . | 25 12 55 | 25 11 10 | | JAN. . | 22 4 5 | 22 2 45 |
| | FEB. . | 24 1 39 | 24 5 26 | | FEB. . | 20 16 49 | 20 13 19 |
| | MAR. . | 25 14 23 | 25 22 44 | | ○ | { 7 11 11 | 8 0 40 |
| | APRIL | 24 3 7 | 24 14 0 | | MAR. . | { 22 5 33 | 22 0 8 |
| | ○ | { 8 21 29 | 8 15 13 | | APRIL | 20 18 17 | 20 11 45 |
| | MAY . | { 23 15 51 | 24 2 46 | | MAY . | 20 7 1 | 20 0 39 |
| | JUNE . | 22 4 35 | 22 13 12 | | JUNE . | 18 19 45 | 18 14 59 |
| | JULY . | 21 17 19 | 21 22 2 | | JULY . | 18 8 29 | 18 6 27 |
| | AUG. . | 20 6 3 | 20 6 14 | | AUG. . | { 16 21 13 | 16 22 23 |
| | SEPT. . | 18 18 47 | 18 14 46 | | ○ | { 31 15 35 | 31 5 20 |
| | OCT. . | 18 7 31 | 18 0 20 | | SEPT. . | 15 9 57 | 15 14 6 |
| | ○ | { 2 1 53 | 2 5 42 | | OCT. . | 14 22 41 | 15 5 0 |
| | NOV. . | { 16 20 15 | 16 11 22 | | NOV. . | 13 11 25 | 13 18 47 |
| | DEC. . | 16 8 59 | 16 0 5 | | DEC. . | 13 0 9 | 13 7 20 |
| 720. G.F. 17 7 35 | JAN. . | 14 21 44 | 14 14 29 | 723. C. 18 1 2 | JAN. . | 11 12 54 | 11 18 40 |
| | FEB. . | 13 10 23 | 13 6 13 | | FEB. . | { 10 1 38 | 10 4 50 |
| | MAR. . | 13 23 12 | 13 22 47 | | ○ | { 24 20 0 | 25 3 4 |
| | APRIL | { 12 11 56 | 12 15 24 | | MAR. . | 11 14 22 | 11 14 6 |
| | ○ | { 27 6 18 | 27 7 5 | | APRIL | 10 3 6 | 9 23 1 |
| | MAY . | 12 0 40 | 12 7 9 | | MAY . | 9 15 50 | 9 8 24 |
| | JUNE . | 10 13 24 | 10 21 22 | | JUNE . | 8 4 34 | 7 19 6 |
| | JULY . | 10 2 8 | 10 9 49 | | JULY . | 7 17 18 | 7 7 49 |
| | AUG. . | 8 14 52 | 8 20 41 | | AUG. . | { 6 6 2 | 5 22 42 |
| | SEPT. . | 7 3 36 | 7 6 40 | | ○ | { 21 0 24 | 20 21 51 |
| | OCT. . | { 6 16 20 | 6 16 23 | | SEPT. . | 4 18 46 | 4 15 20 |
| | ○ | { 21 10 42 | 21 5 17 | | OCT. . | 4 7 30 | 4 8 52 |
| | NOV. . | 5 5 4 | 5 2 37 | | NOV. . | 2 20 14 | 3 2 11 |
| | DEC. . | 4 17 48 | 4 13 26 | | DEC. . | { 2 8 53 | 2 18 14 |
| 721. E. 17 18 24 | JAN. . | 3 6 32 | 3 0 58 | 724. B.A. 17 6 51 | JAN. . | { ... | 1 8 27 |
| | FEB. . | 1 19 16 | 1 13 16 | | ○ | { 30 10 26 | 30 20 31 |
| | MAR. . | 3 8 0 | 3 2 28 | | FEB. . | { 14 4 48 | 14 2 49 |
| | APRIL | 1 20 44 | 1 16 39 | | MAR. . | { 28 23 10 | 29 6 35 |
| | MAY . | { 1 9 28 | 1 7 39 | | APRIL | 29 11 54 | 29 15 5 |
| | JUNE . | { 30 22 12 | 30 23 7 | | MAY . | 28 0 38 | 27 22 43 |
| | JULY . | 29 10 56 | 29 14 21 | | APRIL | 23 0 38 | 27 22 43 |
| | AUG. . | 28 23 40 | 29 4 46 | | MAY . | 27 13 22 | 27 6 26 |
| | SEPT. . | 27 12 24 | 27 13 5 | | JUNE . | 26 2 6 | 25 15 18 |
| | OCT. . | 26 1 8 | 26 6 24 | | JULY . | 25 14 50 | 25 2 20 |
| | NOV. . | 25 13 52 | 25 18 0 | | ○ | { 9 9 12 | 9 13 40 |
| | DEC. . | 24 2 36 | 24 5 10 | | AUG. . | { 24 3 34 | 23 16 6 |
| | | 23 15 20 | 23 16 4 | | SEPT. . | 22 16 18 | 22 8 33 |
| | | | | | OCT. . | 22 5 2 | 22 2 56 |
| | | | | | NOV. . | 20 17 46 | 20 21 53 |
| | | | | | DEC. . | 20 6 30 | 20 15 55 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 725. G. March. d. h. m. 17 12 39 | | d. h. m. | d. h. m. | A.D. 728. D.C. March. d. h. m. 17 6 6 | | d. h. m. | d. h. m. |
| | JAN. . | 18 19 15 | 19 7 50 | | JAN. . | 16 10 25 | 16 6 5 |
| | FEB. . | 17 7 59 | 17 21 0 | | FEB. . | 14 23 9 | 15 0 7 |
| | MAR. . | 18 20 43 | 19 7 27 | | MAR. . | 15 11 53 | 15 17 51 |
| | APRIL . | 17 9 27 | 17 15 47 | | APRIL . | 14 0 37 | 14 10 8 |
| | MAY . | 16 22 11 | 16 22 49 | | MAY . | { 13 13 21 | 14 0 8 |
| | JUNE . | 15 10 55 | 15 5 39 | | ○ | { 28 7 43 | 27 23 19 |
| | JULY . | 14 23 39 | 14 13 20 | | JUNE . | 12 2 5 | 12 11 44 |
| | AUG. . | 13 12 23 | 12 22 59 | | JULY . | 11 14 49 | 11 21 24 |
| | SEPT. . | 12 1 7 | 11 11 25 | | AUG. . | 10 3 33 | 10 6 0 |
| | OCT. . | 11 13 51 | 11 2 58 | | SEPT. . | 8 16 17 | 8 14 29 |
| | NOV. . | 10 2 35 | 9 21 7 | | OCT. . | 8 5 1 | 7 23 33 |
| | DEC. . | { 9 15 19 | 9 16 37 | | NOV. . | 6 17 45 | 6 10 2 |
| | ○ | { 24 9 41 | 24 7 41 | | DEC. . | 6 6 29 | 5 21 54 |
| 726. F. 17 18 28 | JAN. . | 8 4 3 | 8 11 49 | 729. B. 17 11 55 | JAN. . | 4 19 13 | 4 11 20 |
| | FEB. . | 6 16 47 | 7 5 8 | | FEB. . | 3 7 57 | 3 2 11 |
| | MAR. . | 8 5 31 | 8 19 34 | | MAR. . | 4 20 41 | 4 18 8 |
| | APRIL . | 6 18 15 | 7 6 56 | | APRIL . | { 3 9 25 | 3 10 34 |
| | MAY . | 6 6 59 | 6 15 43 | | ○ | { 18 3 47 | 18 7 17 |
| | JUNE . | { 4 19 43 | 4 22 54 | | MAY . | 2 22 9 | 3 2 43 |
| | ○ | { 19 14 5 | 19 12 26 | | JUNE . | { 1 10 53 | 1 17 45 |
| | JULY . | 4 8 27 | 4 5 34 | | ○ | { 30 23 37 | { 1 7 12 |
| | AUG. . | 2 21 11 | { 2 12 48 | | JULY . | 30 12 21 | { 30 19 1 |
| | SEPT. . | { 1 9 55 | { 31 21 40 | | AUG. . | 29 1 5 | 29 5 38 |
| | ○ | { 30 22 39 | 30 8 59 | | SEPT. . | 27 13 49 | 27 15 41 |
| | OCT. . | 30 11 23 | 29 23 15 | | OCT. . | 27 2 33 | 27 1 49 |
| | NOV. . | 29 0 7 | 28 16 14 | | NOV. . | 25 15 17 | 25 12 24 |
| | ○ | { 13 18 29 | 13 23 24 | | DEC. . | 25 4 1 | 24 23 31 |
| | DEC. . | { 28 12 51 | 28 11 5 | | | | |
| 727. E. 18 0 17 | JAN. . | 27 1 36 | 27 6 19 | 730. A. 17 17 44 | JAN. . | 23 16 46 | 23 11 17 |
| | FEB. . | 25 14 20 | 26 0 19 | | FEB. . | 22 5 30 | 21 23 45 |
| | MAR. . | 27 3 4 | 27 15 55 | | MAR. . | 23 18 14 | 23 13 7 |
| | APRIL . | 25 15 48 | 26 4 34 | | ○ | { 7 12 36 | 7 23 37 |
| | MAY . | 25 4 32 | 25 14 30 | | APRIL . | { 22 6 58 | 22 3 30 |
| | ○ | { 8 22 54 | 8 14 33 | | MAY . | 21 19 42 | 21 18 38 |
| | JUNE . | { 23 17 16 | 23 22 34 | | JUNE . | 20 8 26 | 20 10 1 |
| | JULY . | 23 6 0 | 23 5 50 | | JULY . | 19 21 10 | 20 1 2 |
| | AUG. . | 21 18 44 | 21 13 21 | | AUG. . | 18 9 54 | 18 15 11 |
| | SEPT. . | 20 7 28 | 19 22 4 | | SEPT. . | 16 22 38 | 17 4 17 |
| | OCT. . | 19 20 12 | 19 8 41 | | ○ | { 1 17 0 | 1 3 20 |
| | NOV. . | 18 8 56 | 17 21 38 | | OCT. . | { 16 11 22 | 16 16 28 |
| | ○ | { 3 3 18 | 3 12 21 | | NOV. . | 15 0 6 | 15 4 2 |
| | DEC. . | { 17 21 40 | 17 12 54 | | DEC. . | 14 12 50 | 14 15 9 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|------------|------------------------------------|------------------------------------|
| A.D. 731. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 734. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 17 23 32 | JAN. . | 18 1 35 | 18 1 52 | March. <i>d. h. m.</i> 17 16 59 | JAN. . | { 9 16 45 | 10 4 21 |
| | FEB. . | 11 14 19 | 11 12 16 | ○ | { 24 11 7 | 24 4 33 | |
| | MAR. . | { 13 3 3 | 12 22 38 | FEB. . | 8 5 29 | 8 18 54 | |
| | ○ | { 27 21 25 | 28 11 11 | MAR. . | 9 18 13 | 10 6 34 | |
| | APRIL | 11 15 47 | 11 9 30 | APRIL | 8 6 57 | 8 15 43 | |
| | MAY . | 11 4 31 | 10 21 29 | MAY . | 7 19 41 | 7 23 11 | |
| | JUNE . | 9 17 15 | 9 10 56 | JUNE . | 6 8 25 | 6 5 55 | |
| | JULY . | 9 5 59 | 9 1 52 | JULY . | { 5 21 9 | 5 13 1 | |
| | AUG. . | 7 18 43 | 7 17 47 | ○ | { 20 15 31 | 20 21 24 | |
| | SEPT. . | { 6 7 27 | 6 9 56 | AUG. . | 4 9 53 | 3 21 35 | |
| | ○ | { 21 1 49 | 20 14 13 | SEPT. . | 2 22 37 | 2 8 36 | |
| | OCT. . | 5 20 11 | 6 1 36 | OCT. . | 2 11 21 | { 1 22 42 | |
| | NOV. . | 4 8 55 | 4 16 15 | NOV. . | { 1 0 5 | { 31 15 43 | |
| | DEC. . | 3 21 39 | 4 5 36 | DEC. . | { 30 12 49 | 30 10 43 | |
| | | | | | 30 1 33 | 30 6 22 | |
| 732. V.E. | JAN. . | { 2 10 23 | 2 17 36 | | ○ | { 13 19 55 | 13 17 36 |
| | FEB. . | { 31 23 7 | ... | 735. B. | JAN. . | { 28 14 17 | 29 0 45 |
| 17 5 21 | MAR. . | { 1 11 51 | 1 13 42 | 17 22 48 | FEB. . | 27 3 1 | 27 16 37 |
| | APRIL | { 31 0 35 | 30 22 28 | | MAR. . | 28 15 45 | 29 5 25 |
| | MAY . | 29 13 19 | 29 7 16 | | APRIL | 27 4 29 | 27 15 19 |
| | JUNE . | 29 2 3 | 28 17 1 | | MAY . | 26 17 13 | 26 23 10 |
| | JULY . | 27 14 47 | 27 4 33 | | JUNE . | 25 5 57 | 25 5 58 |
| | AUG. . | 27 3 31 | 26 18 21 | | ○ | { 10 0 19 | 9 23 27 |
| | SEPT. . | 25 16 15 | 25 10 19 | | JULY . | { 24 18 41 | 24 12 52 |
| | OCT. . | 24 4 59 | 24 3 44 | | AUG. . | 23 7 25 | 22 20 53 |
| | NOV. . | 23 17 43 | 23 21 32 | | SEPT. . | 21 20 9 | 21 6 59 |
| | DEC. . | 22 6 27 | 22 14 32 | | OCT. . | 21 8 53 | 20 19 50 |
| | | 21 19 11 | 22 5 53 | | NOV. . | 19 21 37 | 19 11 32 |
| 733. D. | JAN. . | 20 7 56 | 20 19 3 | 736. A.G. | JAN. . | 17 23 6 | 18 0 40 |
| | ○ | { 4 2 18 | 3 22 7 | 17 4 37 | FEB. . | 16 11 50 | 16 19 19 |
| 17 11 10 | FEB. . | { 18 20 40 | 19 5 59 | | MAR. . | 17 0 34 | 17 12 8 |
| | MAR. . | 20 9 24 | 20 15 2 | | APRIL | 15 13 18 | 16 2 11 |
| | APRIL | 18 22 8 | 18 22 48 | | MAY . | 15 2 2 | 15 13 25 |
| | MAY . | 18 10 52 | 18 6 12 | | JUNE . | 13 14 46 | 13 22 21 |
| | JUNE . | 16 28 36 | 16 14 17 | | JULY . | 13 3 30 | 13 5 59 |
| | JULY . | { 16 12 20 | 16 0 3 | | AUG. . | 11 16 14 | 11 13 24 |
| | ○ | { 31 6 42 | 31 12 42 | | SEPT. . | 10 4 58 | 9 21 34 |
| | AUG. . | 15 1 4 | 14 12 25 | | OCT. . | 9 17 42 | 9 7 18 |
| | SEPT. . | 13 13 48 | 13 3 39 | | NOV. . | { 8 6 26 | 7 19 8 |
| | OCT. . | 13 2 32 | 12 21 22 | | ○ | { 23 0 48 | 23 9 28 |
| | NOV. . | 11 15 16 | 11 16 22 | | DEC. . | 7 19 10 | 7 9 14 |
| | DEC. . | 11 4 0 | 11 11 11 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 737. F. March. <i>d. h. m.</i> 17 10 25 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 740. C.B. March. <i>d. h. m.</i> 17 3 52 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 6 7 55 | 6 1 24 | | JAN. . | 3 23 5 | 4 1 2 |
| | FEB. . | 4 20 39 | 4 18 55 | | FEB. . | 2 11 49 | 2 11 25 |
| | MAR. . | 6 9 23 | 6 12 44 | | MAR. . | { 3 0 33 | 2 21 31 |
| | APRIL | 4 22 7 | 5 5 42 | | ○ | { 17 18 55 | 18 8 10 |
| | MAY . | { 4 10 51 | 4 20 50 | | APRIL | 1 13 17 | { 1 7 46 |
| | ○ | { 19 5 13 | 18 22 33 | | MAY . | { 1 2 1 | { 30 18 51 |
| | JUNE . | 2 23 35 | 3 9 40 | | JUNE . | { 30 14 45 | 30 7 21 |
| | JULY . | 2 12 19 | 2 20 20 | | JULY . | 29 3 29 | 28 21 31 |
| | AUG. . | { 1 1 3 | 1 5 33 | | AUG. . | 28 16 13 | 28 13 5 |
| | SEPT. . | { 30 13 47 | 30 14 12 | | ○ | 27 4 57 | 27 5 24 |
| | OCT. . | 29 2 31 | 28 23 8 | | SEPT. . | { 10 23 19 | 10 13 23 |
| | ○ | { 12 9 37 | 12 13 41 | | OCT. . | { 25 17 41 | 25 21 41 |
| | NOV. . | { 27 3 59 | 26 20 12 | | NOV. . | 25 6 25 | 25 13 10 |
| | DEC. . | 26 16 43 | 26 8 46 | | DEC. . | 23 19 9 | 24 3 25 |
| | | | | | | 23 7 53 | 23 16 11 |
| 738. E. 17 16 14 | JAN. . | 25 5 27 | 24 22 43 | 741. A. 17 9 41 | JAN. . | 21 20 37 | 22 3 27 |
| | FEB. . | 23 18 11 | 23 13 53 | | FEB. . | 20 9 21 | 20 13 17 |
| | MAR. . | 25 6 55 | 25 5 54 | | ○ | { 7 3 43 | 7 10 22 |
| | APRIL | 23 19 39 | 23 22 5 | | MAR. . | { 21 22 5 | 21 22 8 |
| | ○ | { 8 14 1 | 8 14 40 | | APRIL | 20 10 49 | 20 6 36 |
| | MAY . | { 23 8 23 | 23 13 41 | | MAY . | 19 23 33 | 19 15 34 |
| | JUNE . | 21 21 7 | 22 4 1 | | JUNE . | 18 12 17 | 18 1 53 |
| | JULY . | 21 9 51 | 21 16 49 | | JULY . | 18 1 1 | 17 14 33 |
| | AUG. . | 19 22 35 | 20 4 12 | | AUG. . | { 16 13 45 | 16 5 32 |
| | SEPT. . | 18 11 19 | 18 14 43 | | ○ | { 31 8 7 | 31 5 49 |
| | OCT. . | 18 0 3 | 18 1 1 | | SEPT. . | 15 2 29 | 14 22 31 |
| | ○ | { 1 18 25 | 1 13 2 | | OCT. . | 14 15 13 | 14 16 40 |
| | NOV. . | { 16 12 47 | 16 11 30 | | NOV. . | 13 8 57 | 13 10 15 |
| | DEC. . | 16 1 31 | 15 22 22 | | DEC. . | 12 16 41 | 13 2 41 |
| 739. D. 17 22 3 | JAN. . | 14 14 15 | 14 9 41 | 742. G. 17 15 30 | JAN. . | 11 5 26 | 11 17 2 |
| | FEB. . | 13 2 59 | 12 21 32 | | FEB. . | { 9 13 10 | 10 5 1 |
| | MAR. . | 14 15 44 | 14 10 8 | | ○ | { 24 12 32 | 24 10 23 |
| | APRIL | 13 4 28 | 12 23 43 | | MAR. . | 11 6 54 | 11 14 43 |
| | MAY . | 12 17 12 | 12 14 18 | | APRIL | 9 19 38 | 9 22 56 |
| | JUNE . | 11 5 56 | 11 5 33 | | MAY . | 9 8 22 | 9 6 15 |
| | JULY . | 10 18 40 | 10 20 54 | | JUNE . | 7 21 6 | 7 13 45 |
| | AUG. . | 9 7 24 | 9 11 44 | | JULY . | 7 9 50 | 6 22 28 |
| | SEPT. . | 7 20 8 | 8 1 33 | | AUG. . | { 5 22 34 | 5 9 23 |
| | OCT. . | 7 8 52 | 7 14 34 | | ○ | { 20 16 56 | 20 21 20 |
| | NOV. . | 5 21 36 | 6 2 40 | | SEPT. . | 4 11 13 | 3 23 21 |
| | DEC. . | 5 10 20 | 5 14 7 | | OCT. . | 4 0 2 | 3 16 1 |
| | | | | | NOV. . | 2 12 46 | 2 10 41 |
| | | | | | DEC. . | { 2 1 30 | 2 5 55 |
| | | | | | | { 31 14 14 | ... |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 743. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 746. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 17 21 18 | JAN. . | { ... 1 0 8 | 30 16 4 | March. <i>d. h. m.</i> 17 14 45 | JAN. . | 26 18 8 | 26 18 59 |
| | FEB. . | 28 15 42 | ... | | FEB. . | 25 6 52 | 25 7 33 |
| | MAR. . | { ... 1 5 5 | 30 15 19 | | MAR. . | 26 19 36 | 27 0 53 |
| | | 30 4 26 | 30 15 19 | | APRIL | 25 8 20 | 25 16 54 |
| | APRIL | 28 17 10 | 28 23 25 | | MAY . | 24 21 4 | 25 6 55 |
| | MAY . | 28 5 54 | 28 6 18 | | ○ | { 8 15 26 | 8 6 28 |
| | JUNE . | 26 18 38 | 26 13 2 | | JUNE . | { 23 9 48 | 23 18 43 |
| | JULY . | 26 7 22 | 25 20 46 | | JULY . | 22 22 32 | 23 4 44 |
| | AUG. . | 24 20 6 | 24 6 31 | | AUG. . | 21 11 16 | 21 13 45 |
| | SEPT. . | 23 8 50 | 22 19 7 | | SEPT. . | 20 0 0 | 19 22 41 |
| | OCT. . | 22 21 34 | 22 10 47 | | OCT. . | 19 12 44 | 19 8 15 |
| | NOV. . | 21 10 18 | 21 5 3 | | NOV. . | 18 1 28 | 17 18 51 |
| | DEC. . | 20 23 2 | 21 0 34 | | DEC. . | 17 14 12 | 17 6 41 |
| 744. E.D. | ○ | { 4 17 24 | 4 16 37 | 747. A. | JAN. . | 16 2 56 | 15 19 47 |
| 17 8 7 | JAN. . | { 19 11 47 | 19 19 45 | 17 20 34 | FEB. . | 14 15 41 | 14 10 7 |
| | FEB. . | 18 0 31 | 18 12 56 | | MAR. . | 16 4 25 | 16 1 28 |
| | MAR. . | 18 13 15 | 19 3 12 | | APRIL | { 14 17 9 | 14 17 25 |
| | APRIL | 17 1 59 | 17 14 26 | | ○ | { 29 11 31 | 29 14 58 |
| | MAY . | 16 14 43 | 16 23 9 | | MAY . | 14 5 53 | 14 9 16 |
| | JUNE . | { 15 3 27 | 15 6 21 | | JUNE . | 12 18 37 | 13 0 19 |
| | ○ | { 29 21 49 | 29 18 55 | | JULY . | 12 7 21 | 12 14 2 |
| | JULY . | 14 16 11 | 14 13 7 | | AUG. . | 10 20 5 | 11 2 19 |
| | AUG. . | 13 4 55 | 12 20 33 | | SEPT. . | 9 8 49 | 9 13 29 |
| | SEPT. . | 11 17 39 | 11 5 38 | | OCT. . | 8 21 33 | 9 0 5 |
| | OCT. . | 11 6 23 | 10 17 9 | | NOV. . | 7 10 17 | 7 10 37 |
| | NOV. . | 9 19 7 | 9 7 28 | | DEC. . | 6 23 1 | 6 21 22 |
| | DEC. . | { 9 7 51 | 9 0 23 | | | | |
| 745. C. | ○ | { 24 2 13 | 24 8 20 | 748. G.F. | JAN. . | 5 11 46 | 5 8 25 |
| 17 8 56 | JAN. . | 7 20 36 | 7 19 2 | 17 2 23 | FEB. . | 4 0 30 | 3 19 46 |
| | FEB. . | 6 9 20 | 6 13 57 | | MAR. . | 4 13 14 | 4 7 40 |
| | MAR. . | 7 22 4 | 8 7 42 | | APRIL | { 3 1 53 | 2 20 26 |
| | APRIL | 6 10 43 | 6 23 7 | | ○ | { 17 20 20 | 18 7 15 |
| | MAY . | 5 23 32 | 6 11 42 | | MAY . | 2 14 42 | 2 10 16 |
| | JUNE . | { 4 12 16 | 4 21 43 | | JUNE . | { 1 3 26 | 1 1 6 |
| | ○ | { 19 6 33 | 18 21 16 | | JULY . | { 30 16 10 | 30 16 30 |
| | JULY . | 4 1 0 | 4 5 53 | | AUG. . | 30 4 54 | 30 7 49 |
| | AUG. . | 2 13 44 | { 2 13 30 | | SEPT. . | 28 17 38 | 28 22 29 |
| | SEPT. . | { 1 2 23 | { 31 21 20 | | ○ | { 12 0 44 | 11 11 21 |
| | | 30 15 12 | 30 6 24 | | OCT. . | { 26 19 6 | 27 0 57 |
| | OCT. . | 30 8 56 | 29 17 14 | | NOV. . | 25 7 50 | 25 12 53 |
| | NOV. . | 28 16 40 | 28 6 12 | | DEC. . | 24 20 34 | 25 0 7 |
| | ○ | { 13 11 2 | 13 21 0 | | | | |
| | DEC. . | { 23 5 24 | 27 21 15 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 749. E. March. d. h. m. 17 8 11 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 752. B.A. March. d. h. m. 17 1 30 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 23 9 18 | 23 10 40 | | JAN. . | 21 0 28 | 21 12 32 |
| | FEB. . | 21 22 2 | 21 20 38 | | ○ | { 4 18 50 | 4 12 53 |
| | MAR. . | 23 10 46 | 23 6 30 | | FEB. . | { 19 13 12 | 20 2 59 |
| | ○ | { 7 5 8 | 7 18 30 | | MAR. . | 20 1 56 | 20 14 28 |
| | APRIL | { 21 23 30 | 21 16 48 | | APRIL | 18 14 40 | 18 23 25 |
| | MAY . | 21 12 14 | 21 4 19 | | MAY . | 18 3 24 | 18 6 42 |
| | JUNE . | 20 0 58 | 19 17 30 | | JUNE . | 16 16 8 | 16 13 20 |
| | JULY . | 19 13 42 | 19 8 25 | | JULY . | { 16 4 52 | 15 20 27 |
| | AUG. . | 18 2 26 | 18 0 37 | | ○ | { 30 23 14 | 31 4 18 |
| | SEPT. . | 16 15 10 | { 16 17 16 | | AUG. . | 14 17 36 | 14 5 7 |
| | ○ | { 1 9 32 | { 30 22 28 | | SEPT. . | 13 6 20 | 12 16 18 |
| | OCT. . | { 16 3 54 | 16 9 31 | | OCT. . | 12 19 4 | 12 6 32 |
| | NOV. . | 14 16 38 | 15 0 41 | | NOV. . | 11 7 48 | 10 23 39 |
| | DEC. . | 14 5 22 | 14 14 22 | | DEC. . | 10 20 32 | 10 18 44 |
| 750. D. 17 14 0 | JAN. . | 12 18 7 | 13 2 24 | 753. G. 17 7 27 | JAN. . | { 9 9 17 | 9 14 16 |
| | FEB. . | 11 6 51 | 11 12 49 | | ○ | { 24 3 39 | 24 2 20 |
| | MAR. . | 12 19 35 | 12 21 55 | | FEB. . | 7 22 1 | 8 8 33 |
| | APRIL | 11 8 19 | 11 6 14 | | MAR. . | 9 10 45 | 10 0 16 |
| | MAY . | 10 21 3 | 10 14 37 | | APRIL | 7 23 29 | 8 12 55 |
| | JUNE . | 9 9 47 | 9 0 2 | | MAY . | 7 12 13 | 7 22 45 |
| | JULY . | 8 22 31 | 8 11 23 | | JUNE . | 6 0 57 | 6 6 34 |
| | AUG. . | 7 11 15 | 7 1 13 | | JULY . | { 5 13 41 | 5 13 28 |
| | SEPT. . | 5 23 59 | 5 17 23 | | ○ | { 20 8 3 | 20 6 2 |
| | OCT. . | 5 12 43 | 5 11 11 | | AUG. . | 4 2 25 | 3 20 31 |
| | NOV. . | 4 1 27 | 4 5 27 | | SEPT. . | 2 15 9 | 2 4 48 |
| | DEC. . | 3 14 11 | 3 22 52 | | OCT. . | { 2 3 53 | 1 15 9 |
| 751. C. 17 19 49 | JAN. . | { 2 2 55 | 2 14 25 | 754. F. 17 13 16 | JAN. . | 23 6 50 | 23 8 25 |
| | | { 31 15 39 | ... | | FEB. . | 26 19 34 | 27 2 46 |
| | FEB. . | { ... | 1 3 33 | | MAR. . | 28 8 18 | 28 19 19 |
| | ○ | { 15 10 1 | 15 5 52 | | APRIL | 26 21 2 | 27 9 17 |
| | MAR. . | { 2 4 24 | 2 14 17 | | MAY . | 26 9 46 | 26 20 32 |
| | | { 31 17 8 | 31 23 0 | | JUNE . | 24 22 30 | 25 5 38 |
| | APRIL | 30 5 52 | 30 6 28 | | JULY . | 24 11 14 | 24 13 31 |
| | MAY . | 29 18 36 | 29 13 36 | | AUG. . | 22 23 58 | 22 21 16 |
| | JUNE . | 28 7 20 | 27 21 30 | | SEPT. . | 21 12 42 | 21 5 49 |
| | JULY . | 27 20 4 | 27 7 13 | | OCT. . | 21 1 26 | 20 15 50 |
| | ○ | { 11 14 26 | 11 20 10 | | NOV. . | 19 14 10 | 19 8 47 |
| | AUG. . | { 26 8 48 | 25 19 40 | | ○ | { 4 8 32 | 4 17 53 |
| | SEPT. . | 24 21 32 | 24 11 5 | | DEC. . | { 19 2 54 | 18 17 44 |
| | OCT. . | 24 10 16 | 24 5 2 | | | | |
| | NOV. . | 22 23 0 | 23 0 18 | | | | |
| | DEC. . | 22 11 44 | 22 19 19 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 755. E. March. d. h. m. 17 19 4 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 758. A. March. d. h. m. 17 12 31 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 17 15 38 | 17 9 31 | | JAN. . | 14 6 48 | 14 9 53 |
| | FEB. . | 16 4 22 | 16 2 32 | | FEB. . | 12 19 32 | 12 19 57 |
| | MAR. . | 17 17 6 | 17 19 53 | | MAR. . | { 14 8 16 | 14 5 34 |
| | APRIL | 16 5 50 | 16 12 31 | | ○ | { 29 2 38 | 29 15 29 |
| | MAY . | { 15 18 34 | 16 3 32 | | APRIL | 12 21 0 | 12 15 18 |
| | ○ | { 30 12 56 | 30 5 49 | | MAY . | 12 9 44 | 12 1 52 |
| | JUNE . | 14 7 18 | 14 16 30 | | JUNE . | 10 22 28 | 10 14 1 |
| | JULY . | 13 20 2 | 14 3 29 | | JULY . | 10 11 12 | 10 4 4 |
| | AUG. . | 12 8 46 | 12 13 7 | | AUG. . | 8 23 56 | 8 19 48 |
| | SEPT. . | 10 21 30 | 10 22 14 | | SEPT. . | { 7 12 40 | 7 12 31 |
| | OCT. . | 10 10 14 | 10 7 38 | | ○ | { 22 7 2 | 21 21 35 |
| | NOV. . | { 8 22 58 | 8 17 49 | | OCT. . | 7 1 24 | 7 5 20 |
| | ○ | { 23 17 20 | 23 21 40 | | NOV. . | 5 14 8 | 5 21 24 |
| | DEC. . | 8 11 42 | 8 5 3 | | DEC. . | 5 2 52 | 5 12 3 |
| 756. D.C. 17 0 53 | JAN. . | 7 0 27 | 6 17 24 | 759. G. 17 18 20 | JAN. . | 3 15 37 | 4 0 58 |
| | FEB. . | 5 13 11 | 5 6 54 | | FEB. . | 2 4 21 | 2 12 6 |
| | MAR. . | 6 1 55 | 5 21 28 | | MAR. . | { 3 17 5 | 3 21 40 |
| | APRIL | 4 14 39 | 4 12 53 | | ○ | { 18 11 27 | 18 17 29 |
| | MAY . | { 4 3 23 | 4 4 42 | | APRIL | 2 5 49 | 2 6 5 |
| | ○ | { 18 21 45 | 18 22 11 | | MAY . | { 1 18 33 | 1 14 7 |
| | JUNE . | 2 16 7 | 2 20 10 | | ○ | { 31 7 17 | 30 22 43 |
| | JULY . | { 2 4 51 | 2 10 41 | | JUNE . | 29 20 1 | 29 8 54 |
| | ○ | { 31 17 35 | 31 23 54 | | JULY . | 29 8 45 | 28 21 26 |
| | AUG. . | 30 6 19 | 30 11 51 | | AUG. . | 27 21 29 | 27 12 33 |
| | SEPT. . | 28 19 3 | 28 22 57 | | ○ | { 11 15 51 | 11 13 57 |
| | OCT. . | 28 7 47 | 28 9 42 | | SEPT. . | { 26 10 13 | 26 5 50 |
| | ○ | { 12 2 9 | 11 20 53 | | OCT. . | 25 22 57 | 26 0 14 |
| | NOV. . | { 26 20 81 | 26 20 27 | | NOV. . | 24 11 41 | 24 18 25 |
| | DEC. . | 26 9 15 | 26 7 20 | | DEC. . | 24 0 25 | 24 11 8 |
| 757. B. 17 6 42 | JAN. . | 24 21 59 | 24 18 20 | 760. P.E. 17 0 9 | JAN. . | 22 13 9 | 23 1 31 |
| | FEB. . | 23 10 48 | 23 5 41 | | FEB. . | 21 1 53 | 21 13 20 |
| | MAR. . | 24 23 27 | 24 17 40 | | ○ | { 6 20 15 | 6 17 47 |
| | APRIL | 23 12 11 | 23 6 41 | | MAR. . | { 21 14 37 | 21 22 51 |
| | ○ | { 8 6 38 | 8 15 7 | | APRIL | 20 3 21 | 20 6 41 |
| | MAY . | { 23 0 55 | 22 20 51 | | MAY . | 19 16 5 | 19 13 43 |
| | JUNE . | 21 13 39 | 21 11 58 | | JUNE . | 18 4 49 | 17 21 2 |
| | JULY . | 21 2 23 | 21 3 30 | | JULY . | 17 17 33 | 17 5 41 |
| | AUG. . | 19 15 7 | 19 18 47 | | AUG. . | { 16 6 17 | 15 16 43 |
| | SEPT. . | 18 3 51 | 18 9 17 | | ○ | { 31 0 39 | 31 5 7 |
| | OCT. . | 17 16 35 | 17 22 49 | | SEPT. . | 14 19 1 | 14 6 43 |
| | NOV. . | 16 5 19 | 16 11 22 | | OCT. . | 14 7 45 | 13 23 37 |
| | DEC. . | 15 18 3 | 15 23 2 | | NOV. . | 12 20 29 | 12 18 31 |
| | | | | | DEC. . | 12 9 13 | 12 13 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Months. | Mean New Moon. (O Full Rel.) | True New Moon. (O Full Rel.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Rel.) | True New Moon. (O Full Rel.) |
|---|---------|------------------------------------|------------------------------------|--|--------|------------------------------------|------------------------------------|
| A.D. 761. D. March. d. h. m. 17 5 57 | | d. h. m. | d. h. m. | A.D. 764. A.D. March. d. h. m. 16 23 23 | | d. h. m. | d. h. m. |
| | JAN. | 10 21 56 | 11 8 16 | | JAN. | 8 18 8 | 8 5 35 |
| | FEB. | 9 10 42 | 10 0 9 | | FEB. | 7 1 52 | 6 21 49 |
| | MAR. | 10 23 26 | 11 13 2 | | MAR. | 7 14 36 | 7 14 53 |
| | APRIL. | 9 12 10 | 9 23 4 | | APRIL. | 6 8 20 | 6 7 47 |
| | MAY. | 9 0 54 | 9 0 59 | | MAY. | 5 16 4 | 5 23 30 |
| | JUNE. | 7 18 38 | 7 18 45 | | JUNE. | 4 4 43 | 4 13 39 |
| | JULY. | 7 2 22 | 6 30 20 | | JULY. | 116 23 10 | 16 13 39 |
| | AUG. | 5 15 6 | 5 4 18 | | AUG. | 3 17 32 | 4 1 42 |
| | SEPT. | 4 3 50 | 3 14 14 | | SEPT. | 2 6 16 | 2 12 9 |
| | OCT. | 3 16 34 | 3 2 59 | | OCT. | 31 19 0 | 31 21 40 |
| | NOV. | 2 5 18 | 1 18 40 | | NOV. | 30 7 44 | 30 7 4 |
| | DEC. | 1 18 2 | 1 18 2 | | DEC. | 29 30 29 | 29 16 59 |
| | | 31 0 46 | 31 8 32 | | NOV. | 29 9 12 | 29 3 45 |
| | | | | | DEC. | 27 21 56 | 27 15 26 |
| | O | 15 1 9 | 15 1 24 | | | | |
| 762. C. 17 11 46 | JAN. | 30 19 31 | 30 8 33 | 765. F. 17 5 12 | JAN. | 26 10 41 | 26 4 12 |
| | FEB. | 29 8 15 | 29 20 35 | | FEB. | 24 23 25 | 24 17 57 |
| | MAR. | 29 20 59 | 30 10 42 | | MAR. | 23 12 9 | 23 8 41 |
| | APRIL. | 28 9 43 | 28 21 50 | | APRIL. | 25 0 53 | 25 0 9 |
| | MAY. | 27 22 27 | 28 6 31 | | | 9 19 15 | 9 22 53 |
| | JUNE. | 26 11 11 | 26 18 46 | | MAY. | 24 13 37 | 24 15 45 |
| | O | 11 5 33 | 11 1 26 | | JUNE. | 23 2 21 | 23 0 51 |
| | JULY. | 25 23 55 | 26 20 43 | | JULY. | 22 15 5 | 22 30 55 |
| | AUG. | 24 12 39 | 24 4 34 | | AUG. | 21 3 49 | 21 0 43 |
| | SEPT. | 23 1 23 | 23 13 45 | | SEPT. | 19 16 33 | 19 21 28 |
| | OCT. | 22 14 7 | 22 1 28 | | OCT. | 19 5 17 | 19 8 37 |
| | NOV. | 21 2 51 | 20 15 49 | | NOV. | 17 18 1 | 17 19 31 |
| | DEC. | 20 15 35 | 20 8 34 | | DEC. | 17 6 45 | 17 6 21 |
| | O | 4 9 57 | 4 17 12 | | | | |
| 763. E. 17 17 35 | JAN. | 19 4 19 | 19 2 53 | 766. E. 17 11 1 | JAN. | 15 19 29 | 15 17 12 |
| | FEB. | 17 17 3 | 17 21 34 | | FEB. | 14 8 13 | 14 4 8 |
| | MAR. | 19 5 47 | 19 14 57 | | MAR. | 13 30 57 | 13 15 27 |
| | APRIL. | 17 14 31 | 18 6 8 | | APRIL. | 14 9 41 | 14 8 37 |
| | MAY. | 17 7 15 | 17 19 43 | | O | 20 4 8 | 20 14 45 |
| | JUNE. | 15 19 59 | 16 4 52 | | MAY. | 13 22 25 | 13 16 56 |
| | O | 30 14 21 | 30 4 2 | | JUNE. | 12 11 9 | 12 7 34 |
| | JULY. | 15 8 43 | 15 13 21 | | JULY. | 11 23 53 | 11 23 0 |
| | AUG. | 13 21 27 | 13 21 14 | | AUG. | 10 12 37 | 10 14 39 |
| | SEPT. | 12 10 11 | 12 5 39 | | SEPT. | 9 1 21 | 9 5 51 |
| | OCT. | 11 22 55 | 11 14 52 | | OCT. | 8 14 5 | 8 20 12 |
| | NOV. | 10 11 39 | 10 1 54 | | O | 23 5 27 | 22 19 30 |
| | DEC. | 10 0 23 | 9 14 48 | | NOV. | 7 2 49 | 7 9 30 |
| | O | 24 18 45 | 25 5 34 | | DEC. | 6 15 33 | 6 21 45 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ec1.) | True New Moon. (○ Full Ec1.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ec1.) | True New Moon. (○ Full Ec1.) |
|---|---------|------------------------------------|------------------------------------|---------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 767. D. March. <i>d. h. m.</i> 17 16 50 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 770. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 5 4 18 | 5 9 1 | | JAN. . | { 1 19 28 31 8 12 | 2 3 23 31 20 35 |
| | FEB. . | 3 17 2 | 3 19 20 | | FEB. ○ | 15 2 34 | 14 21 8 |
| | MAR. . | 5 5 46 | 5 4 55 | March. <i>d. h. m.</i> 17 10 16 | MAR. . | { 1 20 56 31 9 40 | 2 10 56 31 22 14 |
| | APRIL | { 3 18 30 18 12 52 | 3 14 14 19 1 42 | | APRIL | 29 22 24 | 30 7 1 |
| | MAY . | 3 7 14 | 3 0 2 | | MAY . | 29 11 8 | 29 14 10 |
| | JUNE . | 1 19 58 | 1 11 9 | | JUNE . | 27 23 52 | 27 20 47 |
| | JULY . | { 1 8 42 30 21 26 | 1 0 8 30 15 6 | | JULY . | 27 12 36 | 27 3 59 |
| | AUG. . | 29 10 10 | 29 7 34 | | ○ | { 11 6 58 26 1 20 | 11 11 17 25 12 50 |
| | SEPT. . | 27 22 54 | 28 0 43 | | SEPT. . | 24 14 4 | 24 0 11 |
| | ○ | { 12 17 16 27 11 38 | 12 6 53 27 17 32 | | OCT. . | 24 2 48 | 23 14 32 |
| | OCT. . | { 27 11 38 26 0 22 | 27 17 32 26 9 11 | | NOV. . | 22 15 32 | 22 7 42 |
| | NOV. . | 26 0 22 | 26 9 11 | | DEC. . | 22 4 16 | 22 2 44 |
| | DEC. . | 25 13 6 | 25 23 5 | | | | |
| 768. C.H. 16 22 39 | JAN. . | 24 1 51 | 24 11 6 | 771. F. | JAN. . | 20 17 0 | 20 22 6 |
| | FEB. . | 22 14 35 | 22 21 16 | | ○ | { 4 11 22 19 5 44 | 4 10 58 19 16 10 |
| | MAR. . | 23 3 19 | 23 6 0 | 17 16 5 | MAR. . | 20 18 28 | 21 7 44 |
| | APRIL | 21 16 3 | 21 13 55 | | APRIL | 19 7 12 | 19 20 15 |
| | MAY . | 21 4 47 | 20 21 56 | | MAY . | 18 19 56 | 19 6 3 |
| | JUNE . | 19 17 31 | 19 7 4 | | JUNE . | 17 8 40 | 17 13 55 |
| | JULY . | 19 6 15 | 18 13 18 | | JULY . | { 16 21 24 31 15 46 | 16 20 59 31 12 33 |
| | AUG. . | 17 18 59 | 17 8 11 | | ○ | { 31 15 46 15 10 8 | 31 12 33 15 4 18 |
| | SEPT. . | 16 7 43 | 16 0 35 | | AUG. . | 15 10 8 | 15 4 18 |
| | OCT. . | 15 20 27 | 15 18 47 | | SEPT. . | 13 22 52 | 13 12 52 |
| | NOV. . | 14 9 11 | 14 13 26 | | OCT. . | 13 11 36 | 12 23 27 |
| | DEC. . | 18 21 55 | 14 7 11 | | NOV. . | 12 0 20 | 11 12 30 |
| | | | | | DEC. . | 11 13 4 | 11 4 5 |
| 769. A. 17 4 28 | JAN. . | 12 10 39 | 12 22 52 | 772. E.D. | JAN. . | 10 1 49 | 9 21 36 |
| | FEB. . | { 10 23 23 25 17 45 | 11 11 55 25 13 32 | 16 21 54 | FEB. . | 8 14 33 | 8 16 2 |
| | ○ | { 25 17 45 12 12 7 | 25 13 32 12 22 25 | | MAR. . | 9 3 17 | 9 10 1 |
| | MAR. . | 12 12 7 | 12 22 25 | | APRIL | 7 16 1 | 8 2 21 |
| | APRIL | 11 0 51 | 11 6 51 | | MAY . | 7 4 45 | 7 16 13 |
| | MAY . | 10 13 35 | 10 14 2 | | JUNE . | 5 17 29 | 6 3 35 |
| | JUNE . | 9 2 19 | 8 20 57 | | JULY . | 5 6 13 | 5 12 54 |
| | JULY . | 8 15 8 | 8 4 45 | | AUG. . | 3 18 57 | 3 21 8 |
| | AUG. . | { 7 3 47 21 22 9 | 6 14 31 22 3 42 | | SEPT. . | 2 7 41 | 2 5 13 |
| | ○ | { 21 22 9 5 16 31 | 22 3 42 5 3 3 | | ○ | { 1 20 25 31 9 9 | 1 14 13 31 0 30 |
| | SEPT. . | 5 16 31 | 5 3 3 | | OCT. . | { 31 9 9 29 21 53 | 31 0 30 29 12 28 |
| | OCT. . | 5 5 15 | 4 13 39 | | NOV. . | 29 21 53 | 29 12 28 |
| | NOV. . | 3 17 59 | 3 12 48 | | ○ | { 14 16 15 29 10 37 | 15 2 25 29 2 13 |
| | DEC. . | 3 6 43 | 3 8 16 | | DEC. . | { 29 10 37 29 2 13 | 29 2 13 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 773. C. March. d. h. m. 17 3 43 | | d. h. m. | d. h. m. | A.D. 776. G.F. March. d. h. m. 16 21 9 | | d. h. m. | d. h. m. |
| | JAN. . | 27 23 21 | 27 17 33 | | JAN. . | 25 14 32 | 25 18 40 |
| | FEB. . | 26 12 6 | 26 10 3 | | FEB. . | 24 3 16 | 24 4 23 |
| | MAR. . | 28 0 50 | 28 2 53 | | MAR. . | 24 16 0 | 24 13 32 |
| | APRIL | 26 13 34 | 26 19 13 | | ○ | { 8 10 22 | 8 22 39 |
| | MAY . | 26 2 18 | 26 10 12 | | APRIL | { 23 4 44 | 22 22 45 |
| | ○ | { 9 20 40 | 9 13 6 | | MAY . | 22 17 28 | 22 8 54 |
| | JUNE . | { 24 15 2 | 24 23 20 | | JUNE . | 21 6 12 | 20 20 45 |
| | JULY . | 24 3 46 | 24 10 42 | | JULY . | 20 18 56 | 20 10 43 |
| | AUG. . | 22 16 30 | 22 20 50 | | AUG. . | 19 7 40 | 19 2 37 |
| | SEPT. . | 21 5 14 | 21 6 27 | | SEPT. . | 17 20 24 | 17 19 46 |
| | OCT. . | 20 17 58 | 20 16 16 | | ○ | { 2 14 46 | 2 5 56 |
| | NOV. . | 19 6 42 | 19 2 42 | | OCT. . | { 17 9 8 | 17 13 7 |
| | ○ | { 4 1 4 | 4 5 43 | | NOV. . | 15 21 52 | 16 5 42 |
| | DEC. . | { 18 19 26 | 18 13 56 | | DEC. . | 15 10 36 | 15 20 41 |
| 774. B. 17 9 32 | JAN. . | 17 8 10 | 17 1 59 | 777. E. 17 2 58 | JAN. . | 13 23 20 | 14 9 40 |
| | FEB. . | 15 20 54 | 15 14 57 | | FEB. . | 12 12 4 | 12 20 38 |
| | MAR. . | 17 9 38 | 17 4 55 | | MAR. . | { 14 0 48 | 14 5 51 |
| | APRIL | 15 22 22 | 15 19 46 | | ○ | { 28 19 10 | 29 0 29 |
| | MAY . | { 15 11 6 | 15 11 14 | | APRIL | 12 13 32 | 12 13 58 |
| | ○ | { 30 5 23 | 30 5 38 | | MAY . | 12 2 16 | 11 21 32 |
| | JUNE . | 13 23 50 | 14 2 38 | | JUNE . | 10 15 0 | 10 5 51 |
| | JULY . | 13 12 34 | 13 17 23 | | JULY . | 10 3 44 | 9 15 52 |
| | AUG. . | 12 1 18 | 12 7 2 | | AUG. . | 8 16 28 | 8 4 24 |
| | SEPT. . | 10 14 2 | 10 19 34 | | SEPT. . | { 7 5 12 | 6 19 41 |
| | OCT. . | 10 2 46 | 10 7 15 | | ○ | { 21 23 34 | 21 22 13 |
| | NOV. . | { 8 15 30 | 8 18 27 | | OCT. . | 6 17 56 | 6 13 16 |
| | ○ | { 23 9 52 | 23 4 51 | | NOV. . | 5 6 40 | 5 8 8 |
| | DEC. . | 8 4 14 | 8 5 24 | | DEC. . | 4 19 24 | 5 2 35 |
| 775. A. 17 15 21 | JAN. . | 6 16 59 | 6 16 13 | 778. D. 17 8 47 | JAN. . | 3 8 9 | 3 19 30 |
| | FEB. . | 5 5 43 | 5 2 55 | | FEB. . | 1 20 53 | 2 9 54 |
| | MAR. . | 6 18 27 | 6 13 44 | | MAR. . | { 3 9 37 | 3 21 32 |
| | APRIL | 5 7 11 | 5 1 7 | | ○ | { 18 3 59 | 18 1 5 |
| | MAY . | { 4 19 55 | 4 13 34 | | APRIL | 1 22 21 | 2 6 47 |
| | ○ | { 19 14 17 | 19 22 32 | | MAY . | { 1 11 5 | 1 14 21 |
| | JUNE . | 3 8 39 | 3 3 25 | | ○ | { 30 23 49 | 30 21 10 |
| | JULY . | 2 21 23 | 2 18 27 | | JUNE . | 29 12 33 | 29 4 22 |
| | AUG. . | { 1 10 7 | 1 10 12 | | JULY . | 29 1 17 | 28 13 1 |
| | ○ | { 30 22 51 | 31 1 56 | | AUG. . | 27 14 1 | 27 0 8 |
| | SEPT. . | 29 11 35 | 29 17 3 | | ○ | { 11 8 23 | 11 13 0 |
| | OCT. . | 29 0 19 | 29 7 10 | | SEPT. . | { 26 2 45 | 25 14 17 |
| | NOV. . | 27 13 3 | 27 20 9 | | OCT. . | 25 15 29 | 25 7 21 |
| | DEC. . | 27 1 47 | 27 7 57 | | NOV. . | 24 4 13 | 24 2 26 |
| | | | | | DEC. . | 23 16 57 | 23 21 58 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 779. c. March. d. h. m. 17 14 36 | | d. h. m. | d. h. m. | A.D. 782. F. March. d. h. m. 17 8 2 | | d. h. m. | d. h. m. |
| | JAN. . | 22 5 42 | 22 16 18 | | ○ | { 4 2 30 | 4 14 7 |
| | FEB. . | 20 18 26 | 21 8 6 | | JAN. . | { 18 20 52 | 18 18 52 |
| | MAR. . | 22 7 10 | 22 20 48 | | FEB. . | 17 9 36 | 17 5 34 |
| | APRIL | 20 19 54 | 21 6 41 | | MAR. . | 18 22 20 | 18 22 3 |
| | MAY . | 20 8 38 | 20 14 27 | | APRIL | 17 11 4 | 17 14 33 |
| | JUNE . | 18 21 22 | 18 21 12 | | MAY . | 16 23 48 | 17 6 13 |
| | JULY . | 18 10 6 | 18 4 2 | | JUNE . | { 15 12 32 | 15 20 21 |
| | AUG. . | 16 22 50 | 16 12 0 | | ○ | { 30 6 54 | 29 20 53 |
| | SEPT. . | 15 11 34 | 14 22 7 | | JULY . | 15 1 16 | 15 8 44 |
| | OCT. . | 15 0 18 | 14 11 0 | | AUG. . | 13 14 0 | 13 19 38 |
| | NOV. . | 13 13 2 | 13 2 52 | | SEPT. . | 12 2 44 | 12 5 40 |
| | DEC. . | 13 1 46 | 12 21 5 | | OCT. . | 11 15 28 | 11 15 34 |
| | | | | | NOV. . | 10 4 12 | 10 1 49 |
| | | | | | DEC. . | 9 16 56 | 9 12 41 |
| 780. B.A. 16 20 25 | JAN. . | { 11 14 30 | 11 16 25 | 783. E. 17 13 51 | JAN. . | 8 5 40 | 8 0 14 |
| | ○ | { 26 8 52 | 26 10 13 | | FEB. . | 6 18 24 | 6 12 30 |
| | FEB. . | 10 3 14 | 10 11 13 | | MAR. . | 8 7 8 | 8 1 39 |
| | MAR. . | 10 15 58 | 11 4 2 | | APRIL | 6 19 52 | 6 15 47 |
| | APRIL | 9 4 42 | 9 13 0 | | MAY . | 6 8 36 | 6 6 46 |
| | MAY . | 8 17 26 | 9 5 4 | | JUNE . | 4 21 20 | 4 22 12 |
| | JUNE . | 7 6 10 | 7 13 49 | | JULY . | 4 10 4 | 4 13 25 |
| | JULY . | { 6 18 54 | 6 21 13 | | AUG. . | 2 22 48 | 3 3 49 |
| | ○ | { 21 18 16 | 21 8 0 | | SEPT. . | 1 11 32 | 1 17 12 |
| | AUG. . | 5 7 38 | 5 4 24 | | OCT. . | { 1 0 16 | 1 5 33 |
| | SEPT. . | 8 20 22 | 3 12 24 | | ○ | { 30 13 0 | 30 17 12 |
| | OCT. . | 8 9 6 | 2 22 2 | | NOV. . | 29 1 44 | 29 4 25 |
| | NOV. . | 1 21 50 | 1 9 53 | | DEC. . | 28 14 28 | 28 15 19 |
| | DEC. . | { 1 10 34 | 1 0 13 | | | | |
| | | { 80 23 19 | 80 16 45 | | | | |
| 781. C. 17 2 14 | ○ | { 14 17 41 | 15 2 1 | 784. D.C. 16 19 40 | JAN. . | 27 3 13 | 27 1 56 |
| | JAN. . | { 29 12 8 | 29 10 41 | | FEB. . | 25 15 57 | 25 12 24 |
| | FEB. . | 28 0 47 | 28 4 50 | | MAR. . | 26 4 41 | 25 23 9 |
| | MAR. . | 29 13 31 | 29 21 57 | | APRIL | 24 17 25 | 24 10 44 |
| | APRIL | 28 2 15 | 28 13 4 | | ○ | { 9 11 47 | 9 22 9 |
| | MAY . | 27 14 59 | 28 1 40 | | MAY . | { 24 6 9 | 23 23 40 |
| | JUNE . | 26 3 43 | 26 12 0 | | JUNE . | 22 18 53 | 22 14 3 |
| | ○ | { 10 22 5 | 10 10 52 | | JULY . | 22 7 37 | 22 5 34 |
| | JULY . | { 25 16 27 | 25 20 51 | | AUG. . | 20 20 21 | 20 21 36 |
| | AUG. . | 24 5 11 | 24 5 7 | | SEPT. . | 19 9 5 | 19 13 22 |
| | SEPT. . | 22 17 55 | 22 13 46 | | OCT. . | 18 21 49 | 19 4 19 |
| | OCT. . | 22 6 39 | 21 23 23 | | ○ | { 2 16 11 | 2 3 48 |
| | NOV. . | 20 19 23 | 20 10 39 | | NOV. . | { 17 10 33 | 17 18 7 |
| | DEC. . | 20 8 7 | 19 23 27 | | DEC. . | 16 23 17 | 17 6 37 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 785. B. March. d. h. m. 17 1 29 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 788. F.E. March. d. h. m. 16 18 55 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 12 1 | 15 17 51 | | JAN. . | 13 8 11 | 13 11 22 |
| | FEB. . | 14 0 45 | 14 3 53 | | FEB. . | { 11 15 55 | 12 4 30 |
| | MAR. . | 15 13 29 | 15 13 3 | | ○ | { 26 10 17 | 26 5 15 |
| | APRIL | { 14 2 13 | 13 21 52 | | MAR. . | 12 4 39 | 12 18 42 |
| | ○ | { 28 20 35 | 29 8 46 | | APRIL | 10 17 23 | 11 5 50 |
| | MAY . | 13 14 57 | 13 7 13 | | MAY . | 10 6 7 | 10 14 29 |
| | JUNE . | 12 3 41 | 11 17 59 | | JUNE . | 8 18 51 | 8 21 36 |
| | JULY . | 11 16 25 | 11 6 49 | | JULY . | 8 7 35 | 8 4 17 |
| | AUG. . | 10 5 9 | 9 21 51 | | AUG. . | { 6 20 19 | 6 11 37 |
| | SEPT. . | 8 17 53 | 8 14 39 | | ○ | { 21 14 41 | 21 18 21 |
| | OCT. . | { 8 6 37 | 8 8 18 | | SEPT. . | 5 9 3 | 4 20 40 |
| | ○ | { 23 0 59 | 22 15 25 | | OCT. . | 4 21 47 | 4 8 12 |
| | NOV. . | 6 19 21 | 7 1 36 | | NOV. . | 3 10 31 | 2 22 39 |
| | DEC. . | 6 8 5 | 6 17 39 | | DEC. . | 2 23 15 | 2 15 47 |
| 786. A. 17 7 18 | JAN. . | 4 20 50 | 5 7 46 | 789. D. 17 0 44 | JAN. . | { 1 11 59 | 1 10 40 |
| | FEB. . | 3 9 34 | 3 19 41 | | FEB. ○ | { 31 0 43 | 31 5 48 |
| | MAR. . | 4 22 18 | 5 5 35 | | MAR. . | { 1 13 28 | 1 23 40 |
| | APRIL | 3 11 2 | 3 13 56 | | ○ | { 31 2 12 | 31 15 8 |
| | MAY . | 2 23 46 | 2 21 28 | | APRIL | 29 14 56 | 30 8 30 |
| | JUNE . | 1 12 30 | { 1 5 12 | | MAY . | 29 3 40 | 29 13 17 |
| | JULY . | { 1 1 14 | { 30 14 9 | | JUNE . | 27 16 24 | 27 21 19 |
| | ○ | { 30 13 58 | 30 1 19 | | JULY . | 27 5 8 | 27 4 35 |
| | AUG. . | 29 2 42 | 28 15 16 | | ○ | { 10 23 30 | 10 19 8 |
| | SEPT. . | 27 15 26 | 27 7 56 | | AUG. . | { 25 17 52 | 25 12 14 |
| | OCT. . | 27 4 10 | 27 2 23 | | SEPT. . | 24 6 36 | 23 21 6 |
| | NOV. . | 25 16 54 | 25 21 28 | | OCT. . | 23 19 20 | 23 7 55 |
| | DEC. . | 25 5 38 | 25 15 26 | | NOV. . | 22 8 4 | 21 21 0 |
| 787. G. 17 13 7 | JAN. . | 23 18 23 | 24 7 12 | 790. C. 17 6 33 | JAN. . | 20 9 33 | 20 5 34 |
| | FEB. . | 22 7 7 | 22 20 9 | | FEB. . | 18 22 17 | 18 23 38 |
| | ○ | { 9 1 29 | 8 21 5 | | MAR. . | 20 11 1 | 20 17 9 |
| | MAR. . | { 23 19 51 | 24 6 24 | | APRIL | 18 23 45 | 19 9 15 |
| | APRIL | 22 8 35 | 22 14 33 | | MAY . | 18 12 29 | 18 23 6 |
| | MAY . | 21 21 19 | 21 21 32 | | JUNE . | 17 1 13 | 17 10 36 |
| | JUNE . | 20 10 3 | 20 4 21 | | JULY . | 16 13 57 | 16 20 14 |
| | JULY . | 19 22 47 | 19 12 9 | | AUG. . | 15 2 41 | 15 4 52 |
| | AUG. . | 18 11 31 | 17 21 58 | | SEPT. . | 13 15 25 | 13 13 23 |
| | ○ | { 2 5 53 | 2 11 22 | | OCT. . | 13 4 9 | 12 22 44 |
| | SEPT. . | { 17 0 15 | 16 10 37 | | NOV. . | 11 16 53 | 11 9 16 |
| | OCT. . | 16 12 59 | 16 2 24 | | DEC. . | { 11 5 37 | 10 21 14 |
| | NOV. . | 15 1 43 | 14 20 42 | | ○ | { 25 23 59 | 26 10 51 |
| | DEC. . | 14 14 27 | 14 16 14 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 791. n. March. d. h. m. 17 12 22 | | d. h. m. | d. h. m. | A.D. 794. E. March. d. h. m. 17 5 48 | | d. h. m. | d. h. m. |
| | JAN. . | 9 18 21 | 9 10 42 | | JAN. . | 6 9 31 | 6 16 50 |
| | FEB. . | 8 7 5 | 8 1 32 | | FEB. . | 4 22 15 | 5 3 20 |
| | MAR. . | 9 19 49 | 9 17 25 | | MAR. . | 6 10 59 | 6 12 41 |
| | APRIL . | 8 8 33 | 8 9 47 | | APRIL . | 4 23 43 | 4 21 20 |
| | MAY . | 7 21 17 | 8 1 49 | | MAY . | 4 12 27 | 4 6 6 |
| | JUNE . | 6 10 1 | 6 16 46 | | JUNE . | 3 1 11 | 2 15 52 |
| | ○ | 21 4 23 | 20 20 23 | | JULY . | 2 13 55 | 2 3 30 |
| | JULY . | 5 22 45 | 6 6 10 | | ○ | 1 2 39 | 31 17 28 |
| | AUG. . | 4 11 29 | 4 17 57 | | AUG. . | 30 15 23 | 30 9 35 |
| | SEPT. . | 3 0 13 | 3 4 37 | | SEPT. . | 29 4 7 | 29 3 9 |
| | OCT. . | 2 12 57 | 2 14 45 | | ○ | 13 22 29 | 13 14 25 |
| | NOV. . | 1 1 41 | 1 1 0 | | OCT. . | 28 16 51 | 28 21 1 |
| | ○ | 30 14 25 | 30 11 38 | | NOV. . | 27 5 35 | 27 14 1 |
| | DEC. . | 15 8 47 | 15 13 45 | | DEC. . | 26 18 19 | 27 5 15 |
| | ○ | 30 8 9 | 29 22 48 | | | | |
| 792. A.D. 16 18 11 | JAN. . | 28 15 54 | 28 10 31 | 795. D. 17 11 37 | JAN. . | 25 7 4 | 25 18 17 |
| | FEB. . | 27 4 38 | 26 22 56 | | FEB. . | 23 19 48 | 24 5 2 |
| | MAR. . | 27 17 22 | 27 12 16 | | MAR. . | 25 8 32 | 25 13 54 |
| | APRIL . | 26 6 6 | 26 2 36 | | ○ | 9 2 54 | 9 7 24 |
| | MAY . | 25 18 50 | 25 17 42 | | APRIL . | 23 21 16 | 23 21 35 |
| | ○ | 9 13 12 | 9 13 5 | | MAY . | 23 10 0 | 23 4 57 |
| | JUNE . | 21 7 31 | 24 9 5 | | JUNE . | 21 22 44 | 21 13 3 |
| | JULY . | 23 20 18 | 24 0 7 | | JULY . | 21 11 28 | 20 22 58 |
| | AUG. . | 22 9 2 | 22 14 17 | | AUG. . | 20 0 12 | 19 11 32 |
| | SEPT. . | 20 21 46 | 21 3 26 | | SEPT. . | 18 12 56 | 18 3 0 |
| | OCT. . | 20 10 30 | 20 15 41 | | ○ | 8 7 18 | 3 6 36 |
| | NOV. . | 18 23 14 | 19 3 17 | | OCT. . | 18 1 40 | 17 20 52 |
| | ○ | 8 17 36 | 8 12 50 | | NOV. . | 16 14 24 | 16 15 58 |
| | DEC. . | 18 11 58 | 18 14 24 | | DEC. . | 16 3 8 | 16 10 44 |
| 793. F. 17 0 0 | JAN. . | 17 0 48 | 17 1 4 | 796. G.H. 16 17 26 | JAN. . | 14 15 53 | 15 3 46 |
| | FEB. . | 15 18 27 | 15 11 23 | | FEB. . | 13 4 37 | 13 18 7 |
| | MAR. . | 17 2 11 | 16 21 39 | | MAR. . | 13 17 21 | 14 5 34 |
| | APRIL . | 15 14 55 | 15 8 28 | | ○ | 28 11 43 | 28 8 17 |
| | MAY . | 15 3 39 | 14 20 26 | | APRIL . | 12 6 5 | 12 14 34 |
| | ○ | 20 22 1 | 30 5 53 | | MAY . | 11 18 49 | 11 21 54 |
| | JUNE . | 13 16 23 | 13 9 57 | | JUNE . | 10 7 33 | 10 4 36 |
| | JULY . | 13 5 7 | 13 0 58 | | JULY . | 9 20 17 | 9 11 46 |
| | AUG. . | 11 17 51 | 11 16 58 | | AUG. . | 8 9 1 | 7 20 29 |
| | SEPT. . | 10 0 35 | 10 9 13 | | SEPT. . | 6 21 45 | 6 7 44 |
| | OCT. . | 9 19 19 | 10 0 56 | | ○ | 21 16 7 | 21 21 1 |
| | NOV. . | 8 8 3 | 8 15 36 | | OCT. . | 6 10 29 | 5 22 1 |
| | DEC. . | 7 20 47 | 8 4 56 | | NOV. . | 4 23 13 | 4 15 14 |
| | | | | | DEC. . | 4 11 57 | 4 10 24 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|-------------|------------------------------------|------------------------------------|
| A.D. 797. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 800. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. March. <i>d. h. m.</i> 16 23 15 | JAN. . | 3 0 41 | 3 5 56 | E.D. March. <i>d. h. m.</i> 16 16 41 | ○ JAN. . | { 15 10 13 | 15 22 32 |
| | FEB. . | 1 13 25 | 2 0 11 | | FEB. . | { 30 4 35 | 29 22 4 |
| | MAR. . | 3 2 9 | 3 15 50 | | MAR. . | 28 17 19 | 28 13 11 |
| | APRIL | 1 14 53 | 2 4 25 | | APRIL | 29 6 8 | 29 5 7 |
| | MAY . | { 1 3 37 | 1 14 9 | | MAY . | 27 18 47 | 27 21 13 |
| | JUNE . | { 30 16 21 | 30 21 52 | | JUNE . | 27 7 31 | 27 12 44 |
| | JULY . | 29 5 5 | 29 4 40 | | JULY . | 25 20 15 | 26 3 1 |
| | AUG. . | 28 17 49 | 28 11 38 | | ○ JULY . | { 10 14 37 | 10 4 10 |
| | SEPT. . | 27 6 33 | 26 19 48 | | AUG. . | { 25 8 59 | 25 15 46 |
| | OCT. . | 25 19 17 | 25 6 7 | | SEPT. . | 23 21 43 | 24 3 12 |
| | NOV. . | 25 8 1 | 24 19 10 | | OCT. . | 22 10 27 | 22 13 48 |
| | DEC. . | 23 20 45 | 23 11 2 | | NOV. . | 21 23 11 | 22 0 11 |
| | | 23 9 29 | 23 5 7 | | DEC. . | 20 11 55 | 20 10 43 |
| 798. G. | JAN. . | 21 22 14 | 22 0 13 | | | 20 0 39 | 19 21 37 |
| | ○ | { 5 16 36 | 5 18 54 | 801. C. | JAN. . | 18 13 24 | 18 8 56 |
| 17 5 4 | FEB. . | { 20 10 58 | 20 18 44 | | FEB. . | 17 2 8 | 16 20 43 |
| | MAR. . | 21 23 42 | 22 11 21 | 16 22 30 | MAR. . | 18 14 52 | 18 9 15 |
| | APRIL | 20 12 26 | 21 1 12 | | APRIL | 17 3 36 | 16 22 48 |
| | MAY . | 20 1 10 | 20 12 16 | | MAY . | 16 16 20 | 16 13 21 |
| | JUNE . | 18 13 54 | 18 21 7 | | JUNE . | 15 5 4 | 15 4 36 |
| | JULY . | 18 2 38 | 18 4 44 | | JULY . | 14 17 48 | 14 19 58 |
| | ○ | { 1 21 0 | 1 14 40 | | AUG. . | 13 6 32 | 13 10 51 |
| | AUG. . | { 16 15 22 | 16 12 14 | | SEPT. . | 11 19 16 | 12 0 48 |
| | SEPT. . | 15 4 6 | 14 20 33 | | OCT. . | 11 8 0 | 11 13 47 |
| | OCT. . | 14 16 50 | 14 6 28 | | NOV. . | 9 20 44 | 10 1 54 |
| | NOV. . | 13 5 34 | 12 18 27 | | DEC. . | 9 9 28 | 9 13 22 |
| | DEC. . | 12 18 18 | 12 8 40 | | | | |
| 799. F. | JAN. . | { 11 7 2 | 11 0 51 | 802. B. | JAN. . | 7 22 12 | 8 0 14 |
| | ○ | { 26 1 24 | 26 10 42 | 17 4 19 | FEB. . | 6 10 56 | 6 10 81 |
| 17 10 53 | FEB. . | 9 19 46 | 9 18 20 | | MAR. . | 7 23 40 | 7 20 32 |
| | MAR. . | 11 8 30 | 11 12 4 | | APRIL | 6 12 24 | 6 6 42 |
| | APRIL | 9 21 14 | 10 4 52 | | MAY . | { 6 1 8 | 5 17 47 |
| | MAY . | 9 9 58 | 9 19 51 | | ○ | { 20 19 30 | 21 5 27 |
| | JUNE . | 7 22 42 | 8 8 32 | | JUNE . | 4 13 52 | 4 6 19 |
| | JULY . | { 7 11 26 | 7 19 10 | | JULY . | 4 2 36 | 3 20 32 |
| | ○ | { 22 5 43 | 21 17 48 | | AUG. . | 2 15 20 | 2 12 14 |
| | AUG. . | 6 0 10 | 6 4 23 | | SEPT. . | { 1 4 4 | 1 4 39 |
| | SEPT. . | 4 12 54 | 4 13 6 | | ○ | { 30 16 48 | 30 21 0 |
| | OCT. . | 4 1 38 | 3 22 11 | | OCT. . | 30 5 32 | 30 12 32 |
| | NOV. . | 2 14 22 | 2 8 12 | | ○ | { 13 23 54 | 13 12 11 |
| | DEC. . | { 2 3 6 | 1 19 28 | | NOV. . | { 28 18 16 | 29 2 45 |
| | | { 31.15 50 | 31 8 6 | | DEC. . | 28 7 0 | 28 15 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|--------------|------------------------------------|------------------------------------|---|-------------|------------------------------------|------------------------------------|
| A.D. 803. A. March. d. h. m. 17 10 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 806. D. March. d. h. m. 17 3 34 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 26 19 45 | 27 2 36 | | JAN. . | 23 10 55 | 23 19 16 |
| | FEB. . | 25 8 29 | 25 12 20 | | FEB. . | 21 23 39 | 22 12 15 |
| | MAR. . | 26 21 13 | 26 21 3 | | ○ { 8 18 1 | 8 13 16 | |
| | APRIL | 25 9 57 | 25 5 25 | | MAR. . | 23 12 23 | 24 2 18 |
| | ○ { 10 4 19 | 10 15 43 | | | APRIL | 22 1 7 | 22 13 19 |
| | MAY . | 24 22 41 | 24 14 22 | | MAY . | 21 13 51 | 21 21 53 |
| | JUNE . | 23 11 25 | 23 0 52 | | JUNE . | 20 2 35 | 20 5 2 |
| | JULY . | 23 0 9 | 22 13 35 | | JULY . | 19 15 19 | 19 11 49 |
| | AUG. . | 21 12 53 | 21 4 45 | | AUG. . | 18 4 3 | 17 19 23 |
| | SEPT. . | 20 1 37 | 19 21 54 | | ○ { 1 22 25 | 2 1 33 | |
| | OCT. . | 19 14 21 | 19 15 59 | | SEPT. . | 16 16 47 | 16 4 40 |
| | ○ { 3 8 43 | 3 0 5 | | | OCT. . | 16 5 31 | 15 16 24 |
| | NOV. . | 18 3 5 | 18 9 46 | | NOV. . | 14 18 15 | 14 6 54 |
| | DEC. . | 17 15 49 | 18 2 9 | | DEC. . | 14 6 59 | 13 23 57 |
| 804. G.F. 16 15 57 | JAN. . | 16 4 34 | 16 16 21 | 807. C. 17 9 23 | JAN. . | 12 19 44 | 12 13 36 |
| | FEB. . | 14 17 18 | 15 4 8 | | FEB. . | 11 8 28 | 11 13 26 |
| | MAR. . | 15 6 2 | 15 13 45 | | ○ { 26 2 50 | 26 3 54 | |
| | APRIL | 13 18 46 | 13 21 45 | | MAR. . | 12 21 12 | 13 7 0 |
| | MAY . | 13 7 30 | 13 5 0 | | APRIL | 11 9 56 | 11 22 12 |
| | JUNE . | 11 20 14 | 11 12 29 | | MAY . | 10 22 40 | 11 10 37 |
| | JULY . | 11 8 58 | 10 21 19 | | JUNE . | 9 11 24 | 9 20 29 |
| | AUG. . | 9 21 42 | 9 8 29 | | JULY . | 9 0 8 | 9 4 43 |
| | SEPT. . | 8 10 26 | 7 22 34 | | AUG. . | 7 12 52 | 7 12 17 |
| | OCT. . | 7 23 10 | 7 15 28 | | ○ { 22 7 14 | 22 2 15 | |
| | NOV. . | 6 11 54 | 6 10 16 | | SEPT. . | 6 1 36 | 5 20 16 |
| | DEC. . | 6 0 38 | 6 5 31 | | OCT. . | 5 14 20 | 5 5 29 |
| | | | | | NOV. . | 4 3 4 | 3 16 29 |
| | | | | | DEC. . | 3 15 43 | 3 5 35 |
| 805. E. 16 21 46 | JAN. . | 4 13 22 | 4 23 39 | 808. B.A. 16 15 12 | JAN. . | 2 4 32 | 1 20 43 |
| | FEB. . | 3 2 6 | 3 15 23 | | { 31 17 16 | 31 13 27 | |
| | MAR. . | 4 14 50 | 5 4 11 | | FEB. . | ... | ... |
| | APRIL | 3 3 34 | 3 14 13 | | ○ { 1 6 0 | 1 6 56 | |
| | MAY . | 2 16 18 | 2 22 10 | | MAR. . | 30 18 44 | 31 0 7 |
| | JUNE . | 1 5 2 | 1 4 59 | | APRIL | 29 7 28 | 29 16 0 |
| | { 80 17 46 | 80 11 46 | | | MAY . | 28 20 12 | 29 5 53 |
| | JULY . | 30 6 30 | 29 19 36 | | JUNE . | 27 8 56 | 27 17 35 |
| | AUG. . | 28 19 14 | 28 5 32 | | JULY . | 26 21 40 | 27 3 35 |
| | ○ { 12 13 36 | 12 19 7 | | | AUG. . | 25 10 24 | 25 12 40 |
| | SEPT. . | 27 7 58 | 26 18 21 | | SEPT. . | 23 23 8 | 23 21 42 |
| | OCT. . | 26 20 42 | 26 10 15 | | OCT. . | 23 11 52 | 23 7 24 |
| | NOV. . | 25 9 26 | 25 4 38 | | NOV. . | 22 0 36 | 21 18 6 |
| | DEC. . | 24 22 10 | 25 0 11 | | DEC. . | 21 13 20 | 21 6 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 809. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 812. D.C. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 5 7 43 | 5 19 26 | 16 14 27 | JAN. . | 17 17 15 | 18 1 36 |
| March. | JAN. . | { 20 2 5 | 19 19 7 | | FEB. . | 16 5 59 | 16 11 52 |
| <i>d. h. m.</i> | FEB. . | 18 14 49 | 18 9 25 | | MAR. . | 16 18 43 | 16 20 51 |
| 16 21 1 | MAR. . | 20 3 33 | 20 0 42 | | APRIL | 15 7 27 | 15 5 5 |
| | APRIL | 18 16 17 | 18 16 34 | | MAY . | 14 20 11 | 14 13 25 |
| | MAY . | 18 5 1 | 18 8 21 | | JUNE . | 13 8 55 | 12 22 53 |
| | JUNE . | 16 17 45 | 16 23 19 | | JULY . | 12 21 39 | 12 10 22 |
| | ○ | { 1 12 7 | 1 3 44 | | AUG. . | 11 10 23 | 11 0 21 |
| | JULY . | { 16 6 29 | 16 13 1 | | SEPT. . | 9 23 7 | 9 16 42 |
| | AUG. . | 14 19 13 | 15 1 19 | | OCT. . | { 9 11 51 | 9 10 39 |
| | SEPT. . | 13 7 57 | 13 12 32 | | ○ | { 24 6 13 | 23 23 4 |
| | OCT. . | 12 20 41 | 12 23 13 | | NOV. . | 8 0 35 | 8 4 58 |
| | NOV. . | 11 9 25 | 11 9 50 | | DEC. . | 7 13 19 | 7 22 22 |
| | DEC. . | { 10 22 9 | 10 20 38 | | | | |
| | ○ | { 25 16 31 | 25 21 47 | 813. B. | JAN. . | 6 2 3 | 6 13 47 |
| 810. F. | JAN. . | 9 10 53 | 9 7 37 | 16 20 16 | FEB. . | 4 14 47 | 5 2 44 |
| | FEB. . | 7 23 37 | 7 13 56 | | MAR. . | 6 3 31 | 6 13 16 |
| 17 2 50 | MAR. . | 9 12 21 | 9 6 46 | | APRIL | { 4 16 15 | 4 21 50 |
| | APRIL | 8 1 5 | 7 19 30 | | ○ | { 19 10 37 | 19 14 8 |
| | MAY . | 7 13 49 | 7 9 13 | | MAY . | 4 4 59 | 4 5 12 |
| | JUNE . | { 6 2 33 | 6 0 9 | | JUNE . | 2 17 43 | 2 12 19 |
| | ○ | { 20 20 55 | 20 20 32 | | JULY . | { 2 6 27 | 1 20 16 |
| | JULY . | 5 15 17 | 5 15 34 | | AUG. . | { 31 19 11 | 31 6 10 |
| | AUG. . | 4 4 1 | 4 6 55 | | SEPT. . | 30 7 55 | 29 18 48 |
| | SEPT. . | 2 16 45 | 2 21 37 | | ○ | { 13 15 1 | 13 15 7 |
| | OCT. . | { 2 5 29 | 2 11 23 | | OCT. . | { 23 9 23 | 23 4 33 |
| | NOV. . | { 31 18 13 | { 1 0 11 | | NOV. . | 26 22 7 | 26 23 54 |
| | ○ | { 15 1 19 | 14 20 52 | | DEC. . | 26 10 51 | 26 18 52 |
| | DEC. . | { 29 19 41 | 29 23 19 | 814. A. | JAN. . | 24 23 36 | 25 11 56 |
| 811. E. | JAN. . | 28 8 26 | 28 9 48 | 17 2 5 | FEB. . | 23 12 20 | 24 2 10 |
| | FEB. . | 26 21 10 | 26 19 42 | | MAR. . | 25 1 4 | 25 13 27 |
| 17 8 39 | MAR. . | 28 9 54 | 28 5 27 | | ○ | { 8 19 26 | 8 15 22 |
| | APRIL | 26 22 38 | 26 15 43 | | APRIL | { 23 13 48 | 23 22 14 |
| | MAY . | 26 11 22 | 26 3 15 | | MAY . | 23 2 32 | 23 5 24 |
| | ○ | { 10 5 44 | 10 13 11 | | JUNE . | 21 15 16 | 21 12 2 |
| | JUNE . | { 25 0 6 | 24 16 31 | | JULY . | 21 4 0 | 20 19 13 |
| | JULY . | 24 12 50 | 24 7 34 | | AUG. . | 19 16 44 | 19 4 8 |
| | AUG. . | 23 1 34 | 22 23 51 | | SEPT. . | 18 5 23 | 17 15 27 |
| | SEPT. . | 21 14 18 | 21 16 36 | | ○ | { 2 23 50 | 3 5 8 |
| | OCT. . | 21 3 2 | 21 8 54 | | OCT. . | { 17 18 12 | 17 5 54 |
| | NOV. . | 19 15 46 | 20 0 4 | | NOV. . | 16 6 56 | 15 23 12 |
| | DEC. . | 19 4 30 | 19 13 42 | | DEC. . | 15 19 40 | 15 18 21 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 815. G. March. d. h. m. 17 7 54 | | d. h. m. | d. h. m. | A.D. 818. C. March. d. h. m. 17 1 20 | | d. h. m. | d. h. m. |
| | JAN. . | 14 8 25 | 14 13 51 | | JAN. . | { 10 23 35 | 10 16 48 |
| | FEB. . | 12 21 9 | 13 7 57 | | ○ | { 25 17 57 | 26 6 52 |
| | MAR. . | 14 9 53 | 14 23 27 | | FEB. . | 9 12 19 | 9 6 11 |
| | APRIL | 12 22 37 | 13 11 53 | | MAR. . | 11 1 3 | 10 20 42 |
| | MAY . | 12 11 21 | 12 21 32 | | APRIL | 9 13 47 | 9 12 4 |
| | JUNE . | 11 0 5 | 11 5 16 | | MAY . | 9 2 31 | 9 3 43 |
| | JULY . | 10 12 49 | 10 12 9 | | JUNE . | 7 15 15 | 7 19 13 |
| | AUG. . | 9 1 33 | 8 19 20 | | JULY . | { 7 3 59 | 7 9 43 |
| | SEPT. . | 7 14 17 | 7 3 47 | | ○ | { 21 22 21 | 21 11 32 |
| | OCT. . | 7 3 1 | 6 14 19 | | AUG. . | 5 16 43 | 5 22 54 |
| | NOV. . | 5 15 45 | 5 3 28 | | SEPT. . | 4 5 27 | 4 10 53 |
| | DEC. . | 5 4 29 | 4 19 17 | | OCT. . | 3 18 11 | 3 22 3 |
| | | | | | NOV. . | 2 6 55 | 2 8 53 |
| 816. F.E. | JAN. . | 3 17 13 | 3 13 10 | | DEC. . | { 1 19 39 | 1 19 42 |
| | FEB. . | { 2 5 57 | 2 7 55 | | | { 31 8 23 | 31 6 33 |
| | ○ | { 17 0 19 | 17 3 26 | 819. B. | JAN. . | 29 21 7 | 29 17 31 |
| 16 13 43 | MAR. . | 2 18 41 | 3 2 7 | | FEB. . | 28 9 51 | 28 4 48 |
| | APRIL | { 1 7 25 | 1 18 29 | 17 7 9 | MAR. . | 29 22 35 | 29 16 44 |
| | MAY . | { 30 20 9 | { 1 8 15 | | APRIL | 28 11 19 | 28 5 43 |
| | JUNE . | 30 8 53 | 30 19 21 | | MAY . | 28 0 3 | 27 19 53 |
| | JULY . | 28 21 37 | 29 4 23 | | JUNE . | 26 12 47 | 26 11 3 |
| | AUG. . | 28 10 21 | 28 12 13 | | JULY . | 26 1 31 | 26 2 37 |
| | SEPT. . | 26 23 5 | 26 20 3 | | AUG. . | 24 14 15 | 24 17 56 |
| | OCT. . | 25 11 49 | 25 4 50 | | SEPT. . | 23 2 59 | 23 8 30 |
| | NOV. . | 25 0 33 | 24 15 1 | | OCT. . | 22 15 43 | 22 22 5 |
| | DEC. . | 23 13 17 | 23 3 5 | | NOV. . | 21 4 27 | 21 10 40 |
| | | 23 2 1 | 22 17 8 | | DEC. . | 20 17 11 | 20 22 17 |
| 817. D. | JAN. . | 21 14 46 | 21 8 53 | 820. A.G. | JAN. . | 19 5 56 | 19 9 4 |
| | ○ | { 5 9 8 | 5 19 15 | | FEB. . | 17 18 40 | 17 19 2 |
| 16 19 32 | FEB. . | { 20 3 30 | 20 1 55 | 16 12 53 | MAR. . | 13 7 24 | 13 4 33 |
| | MAR. . | 21 16 14 | 21 19 10 | | APRIL | 16 20 8 | 16 14 12 |
| | APRIL | 20 4 58 | 20 11 40 | | MAY . | { 16 8 52 | 16 0 47 |
| | MAY . | 19 17 42 | 20 2 33 | | ○ | { 31 3 14 | 31 12 41 |
| | JUNE . | 18 6 26 | 18 15 24 | | JUNE . | 14 21 36 | 14 13 0 |
| | JULY . | 17 19 10 | 18 2 21 | | JULY . | 14 10 20 | 14 3 8 |
| | ○ | { 1 13 32 | 1 0 50 | | AUG. . | 12 23 4 | 12 19 0 |
| | AUG. . | { 16 7 54 | 16 12 2 | | SEPT. . | 11 11 48 | 11 11 50 |
| | SEPT. . | 14 20 38 | 14 21 14 | | OCT. . | 11 0 32 | 11 4 44 |
| | OCT. . | 14 9 22 | 14 6 44 | | NOV. . | { 9 13 16 | 9 20 49 |
| | NOV. . | 12 22 6 | 12 17 1 | | ○ | { 24 7 33 | 23 20 42 |
| | DEC. . | 12 10 50 | 12 4 19 | | DEC. . | 9 2 0 | 9 11 25 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|------------|------------------------------------|------------------------------------|---|------------|------------------------------------|------------------------------------|
| A.D. 821. F. March. <i>d. h. m.</i> 16 18 47 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 824. C.B. March. <i>d. h. m.</i> 16 12 13 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 7 14 45 | 8 0 15 | | JAN. . | 5 5 54 | 5 8 7 |
| | FEB. . | 6 3 29 | 6 11 14 | | FEB. . | 3 18 38 | 4 8 1 |
| | MAR. . | 7 16 13 | 7 20 38 | | MAR. . | { 4 7 22 | 4 19 50 |
| | APRIL | 6 4 57 | 6 4 56 | | ○ | { 19 1 44 | 18 21 9 |
| | MAY . | { 5 17 41 | 5 12 54 | | APRIL | 2 20 6 | 3 9 45 |
| | ○ | { 20 12 3 | 20 22 34 | | MAY . | { 2 8 50 | 2 20 40 |
| | JUNE . | 4 6 25 | 3 21 31 | | { 31 21 34 | { 1 5 14 | { 30 12 18 |
| | JULY . | 3 19 9 | 3 7 47 | | JUNE . | 30 10 18 | 29 19 28 |
| | AUG. . | { 2 7 53 | 1 20 28 | | JULY . | 29 23 2 | 28 3 18 |
| | { 31 20 37 | 31 11 48 | | | AUG. . | 28 11 46 | 28 8 50 |
| | SEPT. . | 30 9 21 | 30 5 15 | | ○ | { 12 6 8 | 12 8 50 |
| | OCT. . | 29 22 5 | 29 23 45 | | SEPT. . | { 27 0 30 | 26 12 50 |
| | ○ | { 13 16 27 | 13 8 52 | | OCT. . | 26 13 14 | 26 0 48 |
| | NOV. . | { 28 10 49 | 28 17 57 | | NOV. . | 25 1 58 | 24 15 14 |
| | DEC. . | 27 23 33 | 28 10 35 | | DEC. . | 24 14 42 | 24 8 5 |
| 822. E. 17 0 36 | JAN. . | 26 12 17 | 27 0 48 | 825. A. 16 18 2 | JAN. . | 23 3 27 | 23 2 26 |
| | FEB. . | 25 1 1 | 25 12 26 | | FEB. . | 21 16 11 | 21 20 53 |
| | MAR. . | 26 13 45 | 26 21 45 | | ○ | { 8 10 33 | 8 12 10 |
| | APRIL | 25 2 29 | 25 5 28 | | MAR. . | { 23 4 55 | 23 14 9 |
| | MAY . | 24 15 13 | 24 12 27 | | APRIL | 21 17 39 | 22 5 12 |
| | JUNE . | 23 3 57 | 22 19 45 | | MAY . | 21 6 23 | 21 17 37 |
| | JULY . | 22 16 41 | 22 4 33 | | JUNE . | 19 19 7 | 20 3 39 |
| | AUG. . | 21 5 25 | 20 15 46 | | JULY . | 19 7 51 | 19 12 8 |
| | SEPT. . | 19 13 9 | 19 6 0 | | AUG. . | 17 20 35 | 17 20 5 |
| | OCT. . | 19 6 53 | 18 23 6 | | ○ | { 1 14 57 | 1 9 14 |
| | ○ | { 3 1 15 | 3 0 36 | | SEPT. . | { 16 9 19 | 16 4 27 |
| | NOV. . | { 17 19 37 | 17 18 7 | | OCT. . | 15 22 3 | 15 14 0 |
| | DEC. . | 17 8 21 | 17 13 34 | | NOV. . | 14 10 47 | 14 1 10 |
| 823. D. 17 6 25 | JAN. . | 15 21 6 | 16 7 46 | 826. G. 16 23 51 | JAN. . | 12 12 16 | 12 5 0 |
| | FEB. . | 14 9 50 | 14 23 27 | | FEB. . | 11 1 0 | 10 21 15 |
| | MAR. . | 15 22 34 | 16 12 6 | | MAR. . | 12 13 44 | 12 14 12 |
| | APRIL | 14 11 18 | 14 21 56 | | APRIL | 11 2 28 | 11 6 58 |
| | MAY . | 14 0 2 | 14 5 43 | | MAY . | 10 15 12 | 10 22 40 |
| | JUNE . | 12 12 46 | 12 12 26 | | JUNE . | 9 3 56 | 9 12 36 |
| | JULY . | 12 1 30 | 11 19 14 | | JULY . | 8 16 40 | 9 0 37 |
| | AUG. . | 10 14 14 | 10 3 10 | | AUG. . | 7 5 24 | 7 11 2 |
| | SEPT. . | { 9 2 58 | 8 13 17 | | SEPT. . | 5 18 8 | 5 20 37 |
| | ○ | { 23 21 20 | 24 3 0 | | OCT. . | 5 6 52 | 5 6 9 |
| | OCT. . | 8 15 42 | 8 2 16 | | NOV. . | 3 19 36 | 3 16 10 |
| | NOV. . | 7 4 26 | 6 18 15 | | DEC. . | 3 8 20 | 3 8 0 |
| | DEC. . | 6 17 10 | 6 12 39 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 827. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 830. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. O | { 1 21 4 16 15 26 31 9 48 | { 1 14 46 17 3 28 31 3 28 | March. <i>d. h. m.</i> 16 23 6 | JAN. . | 28 0 58 | 28 10 16 |
| March. <i>d. h. m.</i> 17 5 40 | FEB. . | ... | ... | | FEB. . | 26 13 42 | 26 20 17 |
| | MAR. . | { 1 22 32 31 11 16 | { 1 17 10 31 7 51 | | MAR. . | 28 2 26 | 28 4 52 |
| | APRIL | 30 0 0 | 29 23 14 | | APRIL | 26 15 10 | 26 12 41 |
| | MAY . | 29 12 44 | 29 14 48 | | MAY . | 26 3 54 | 25 20 41 |
| | JUNE . | 28 1 28 | 28 5 58 | | JUNE . | 24 16 38 | 24 5 55 |
| | O | { 12 19 50 27 14 12 | { 12 11 7 27 19 55 | | JULY . | 24 5 22 | 23 17 16 |
| | JULY . | 26 2 56 | 26 8 45 | | AUG. . | 22 18 6 | 22 7 21 |
| | SEPT. . | 24 15 40 | 24 20 34 | | SEPT. . | 21 6 50 | 20 23 57 |
| | OCT. . | 24 4 24 | 24 7 47 | | OCT. . | 20 19 34 | 20 18 17 |
| | NOV. . | 22 17 8 | 22 18 48 | | O | { 4 13 56 19 8 18 | { 4 7 47 19 12 59 |
| | DEC. . | 22 5 52 | 22 5 35 | | NOV. . | 18 21 2 | 19 6 40 |
| | O | { 6 0 15 20 18 37 | { 6 5 44 20 16 28 | 831. A. | JAN. . | 17 9 47 | 17 22 13 |
| 828. E.D. | JAN. . | 19 7 21 | 19 3 16 | 17 4 55 | FEB. . | 15 22 31 | 16 11 5 |
| 16 11 29 | FEB. . | 19 20 5 | 19 14 31 | | MAR. . | 17 11 15 | 17 21 22 |
| | APRIL | 18 8 49 | 18 2 38 | | APRIL | { 15 23 59 30 18 21 | { 16 5 39 30 20 47 |
| | MAY . | 17 21 33 | 17 16 0 | | O | 15 12 43 | 15 12 44 |
| | JUNE . | 16 10 17 | 16 6 37 | | MAY . | 14 1 27 | 13 19 40 |
| | O | { 1 4 39 15 23 1 | { 1 4 0 15 22 6 | | JUNE . | 13 14 11 | 13 3 34 |
| | JULY . | 14 11 45 | 14 13 49 | | JULY . | 12 2 55 | 11 13 29 |
| | AUG. . | 13 0 29 | 13 5 5 | | AUG. . | 10 15 39 | 10 2 14 |
| | SEPT. . | 12 13 13 | 12 19 28 | | SEPT. . | { 10 4 23 24 22 45 | { 9 18 4 24 23 44 |
| | OCT. . | 11 1 57 | 11 8 48 | | OCT. . | 8 17 7 | 8 12 23 |
| | NOV. . | { 10 14 41 25 9 3 | { 10 21 2 25 4 55 | | O | 8 5 51 | 8 7 53 |
| | DEC. . | 9 3 26 | 9 8 14 | 832. G.F. | JAN. . | 6 18 36 | 7 2 56 |
| 829. C. | FEB. . | 7 16 10 | 7 13 27 | 16 10 44 | FEB. . | 5 7 20 | 5 19 58 |
| 16 17 18 | MAR. . | 9 4 54 | 9 3 55 | | MAR. . | 5 20 4 | 6 10 4 |
| | APRIL | 7 17 38 | 7 13 9 | | APRIL | { 4 8 48 19 3 10 | { 4 21 10 18 22 20 |
| | MAY . | 7 6 22 | 6 22 56 | | O | 3 21 32 | 4 5 47 |
| | JUNE . | { 5 19 6 20 13 28 | { 5 10 5 20 20 28 | | JUNE . | 2 10 16 | 2 12 51 |
| | O | 5 7 50 | 4 23 10 | | JULY . | { 1 23 0 31 11 44 | { 1 19 30 31 2 47 |
| | JULY . | 3 20 34 | 3 14 15 | | AUG. . | 30 0 23 | 29 11 48 |
| | AUG. . | 2 9 13 | 2 6 52 | | SEPT. . | 28 13 12 | 27 23 22 |
| | SEPT. . | { 1 22 2 31 10 46 | { 2 0 6 31 16 57 | | O | { 13 7 34 28 1 56 | { 13 13 23 27 13 56 |
| | OCT. . | 29 23 30 | 30 8 35 | | OCT. . | 26 14 40 | 26 7 16 |
| | NOV. . | 29 12 14 | 29 22 25 | | NOV. . | 26 3 24 | 26 2 20 |
| | DEC. . | | | | DEC. . | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 833. E. March. <i>d. h. m.</i> 16 16 33 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 836. B.A. March. <i>d. h. m.</i> 16 9 59 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 24 16 8 | 24 21 38 | | JAN. . | 22 7 18 | 22 1 15 |
| | FEB. . | 23 4 52 | 23 15 32 | | ○ | { 6 1 40 | 6 15 2 |
| | MAR. . | 24 17 36 | 25 6 52 | | FEB. . | { 20 20 2 | 20 14 11 |
| | ○ | { 8 11 58 | 8 6 12 | | MAR. . | 21 8 46 | 21 4 5 |
| | APRIL | { 23 6 20 | 23 19 12 | | APRIL | 19 21 30 | 19 18 55 |
| | MAY . | 22 19 4 | 23 4 50 | | MAY . | 19 10 14 | 19 10 19 |
| | JUNE . | 21 7 48 | 21 12 39 | | JUNE . | 17 22 58 | 18 1 42 |
| | JULY . | 20 20 32 | 20 19 43 | | JULY . | 17 11 42 | { 17 16 25 31 19 1 |
| | AUG. . | 19 9 16 | 19 3 9 | | ○ | { 1 6 4 | |
| | SEPT. . | 17 22 0 | 17 11 53 | | AUG. . | { 16 0 26 | 16 6 6 |
| | OCT. . | 17 10 44 | 16 22 40 | | SEPT. . | 14 13 10 | 14 18 41 |
| | NOV. . | 15 23 28 | 15 11 54 | | OCT. . | 14 1 54 | 14 6 23 |
| | DEC. . | 15 12 12 | 15 3 34 | | NOV. . | 12 14 38 | 12 17 41 |
| | | | | | DEC. . | 12 3 22 | 12 4 39 |
| 834. D. 16 22 22 | JAN. . | 14 0 57 | 13 21 9 | 837. G. 16 15 48 | JAN. . | 10 16 7 | 10 15 26 |
| | FEB. . | { 12 13 41 | 12 15 29 | | FEB. . | 9 4 51 | 9 2 3 |
| | ○ | { 27 8 3 | 27 11 51 | | MAR. . | 10 17 35 | 10 12 48 |
| | MAR. . | 14 2 25 | 14 9 20 | | APRIL | 9 6 19 | 9 0 7 |
| | APRIL | 12 15 9 | 13 1 29 | | MAY . | 8 19 3 | 8 12 35 |
| | MAY . | 12 3 53 | 12 15 12 | | JUNE . | 7 7 47 | 7 2 26 |
| | JUNE . | 10 16 37 | 11 2 24 | | JULY . | 6 20 31 | 6 17 32 |
| | JULY . | 10 5 21 | 10 11 41 | | AUG. . | 5 9 15 | 5 9 21 |
| | AUG. . | 8 18 5 | 8 19 57 | | SEPT. . | 3 21 50 | 4 1 9 |
| | SEPT. . | 7 6 49 | 7 4 13 | | OCT. . | 3 10 48 | 3 16 20 |
| | OCT. . | 6 19 33 | 6 13 17 | | NOV. . | 1 23 27 | 2 6 23 |
| | NOV. . | 5 8 17 | 4 23 42 | | DEC. . | { 1 12 11 | 1 19 26 |
| | DEC. . | 4 21 1 | 4 11 48 | | | { 31 0 55 | 31 7 12 |
| 835. C. 17 4 11 | JAN. . | 3 9 46 | 3 1 37 | 838. F. 16 21 37 | JAN. . | 29 18 39 | 29 17 49 |
| | FEB. . | { 1 22 30 | 1 16 58 | | FEB. . | 28 2 28 | 28 3 24 |
| | ○ | { 16 16 52 | 17 3 41 | | MAR. . | 29 15 7 | 29 12 26 |
| | MAR. . | 3 11 14 | 3 9 23 | | APRIL | 28 3 51 | 27 21 35 |
| | APRIL | 1 23 53 | 2 2 7 | | MAY . | 27 16 35 | 27 7 45 |
| | MAY . | { 1 12 42 | 1 18 21 | | ○ | { 11 10 57 | 11 19 52 |
| | JUNE . | { 31 1 26 | 31 9 12 | | JUNE . | { 26 5 19 | 25 19 42 |
| | JULY . | 29 14 10 | 29 22 15 | | JULY . | 25 18 3 | 25 9 48 |
| | ○ | { 12 21 16 | 12 8 0 | | AUG. . | 24 6 47 | 24 1 52 |
| | AUG. . | { 27 15 38 | 27 19 47 | | SEPT. . | 22 19 31 | 22 19 7 |
| | SEPT. . | 26 4 22 | 26 5 30 | | OCT. . | 22 8 15 | 22 12 34 |
| | OCT. . | 25 17 6 | 25 15 24 | | NOV. . | 20 20 59 | 21 5 3 |
| | NOV. . | 24 5 50 | 24 1 56 | | ○ | { 5 15 21 | 5 5 15 |
| | DEC. . | 23 18 34 | 23 13 12 | | DEC. . | { 20 9 43 | 20 20 2 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 839. E. March. d. h. m. 17 3 25 | | d. h. m. | d. h. m. | A.D. 842. A. March. d. h. m. 16 20 52 | | d. h. m. | d. h. m. |
| | JAN. . | 18 22 28 | 19 8 56 | | JAN. . | 15 13 38 | 15 15 59 |
| | FEB. . | 17 11 12 | 17 19 43 | | FEB. . | 14 2 22 | 14 10 39 |
| | MAR. . | 18 23 56 | 19 4 47 | | MAR. . | 15 15 6 | 16 3 16 |
| | APRIL | 17 12 40 | 17 12 41 | | ○ | 30 9 28 | 30 4 55 |
| | MAY . | 17 1 24 | 16 20 18 | | APRIL | 14 3 50 | 14 17 3 |
| | ○ | 31 19 46 | 1 5 21 | | MAY . | 13 16 34 | 14 3 55 |
| | JUNE . | 15 14 8 | 15 4 39 | | JUNE . | 12 5 18 | 12 12 33 |
| | JULY . | 15 2 52 | 14 14 47 | | JULY . | 11 18 2 | 11 19 57 |
| | AUG. . | 13 15 36 | 13 3 29 | | AUG. . | 10 6 46 | 10 3 13 |
| | SEPT. . | 12 4 20 | 11 18 58 | | SEPT. . | 8 19 30 | 8 11 21 |
| | OCT. . | 11 17 4 | 11 12 45 | | ○ | 23 13 52 | 23 16 16 |
| | Nov. . | 10 5 48 | 10 7 37 | | OCT. . | 8 8 14 | 7 21 9 |
| | ○ | 25 0 10 | 24 17 43 | | Nov. . | 6 20 58 | 6 9 12 |
| | DEC. . | 9 18 32 | 10 2 8 | | DEC. . | 6 9 42 | 5 23 39 |
| 840. D.C. 16 9 14 | JAN. . | 8 7 17 | 8 18 56 | 843. G. 17 2 41 | JAN. . | 4 22 27 | 4 16 16 |
| | FEB. . | 6 20 1 | 7 9 8 | | FEB. . | 3 11 11 | 3 10 10 |
| | MAR. . | 7 8 45 | 7 20 35 | | MAR. . | 4 23 55 | 5 4 13 |
| | APRIL | 5 21 29 | 6 5 37 | | ○ | 19 18 17 | 19 20 18 |
| | MAY . | 5 10 13 | 5 13 4 | | APRIL | 3 12 39 | 3 21 11 |
| | ○ | 20 4 35 | 20 7 54 | | MAY . | 3 1 23 | 3 12 7 |
| | JUNE . | 3 22 57 | 3 19 52 | | JUNE . | 1 14 7 | 2 0 34 |
| | JULY . | 3 11 41 | 3 3 6 | | JULY . | 1 2 51 | 1 10 50 |
| | ○ | 2 0 25 | 1 11 54 | | ○ | 30 15 35 | 30 19 39 |
| | AUG. . | 81 13 9 | 30 23 13 | | AUG. . | 29 4 19 | 29 4 1 |
| | SEPT. . | 30 1 53 | 29 13 37 | | ○ | 12 22 41 | 12 16 23 |
| | OCT. . | 29 14 37 | 29 6 53 | | SEPT. . | 27 17 3 | 27 12 47 |
| | ○ | 18 8 59 | 18 9 26 | | OCT. . | 27 5 47 | 26 22 39 |
| | Nov. . | 28 3 21 | 23 2 4 | | Nov. . | 25 13 31 | 25 9 56 |
| | DEC. . | 27 16 5 | 27 21 34 | | DEC. . | 25 7 15 | 24 22 49 |
| 841. B. 16 15 3 | JAN. . | 26 4 49 | 26 15 44 | 844. F.E. 16 8 30 | JAN. . | 23 19 59 | 23 13 14 |
| | FEB. . | 24 17 33 | 25 7 19 | | FEB. . | 22 8 43 | 22 4 54 |
| | MAR. . | 26 6 17 | 26 19 49 | | MAR. . | 22 21 27 | 22 21 18 |
| | APRIL | 24 19 1 | 25 5 29 | | APRIL | 21 10 11 | 21 13 42 |
| | MAY . | 24 7 45 | 24 13 9 | | MAY . | 20 22 55 | 21 5 15 |
| | JUNE . | 22 20 29 | 22 19 52 | | JUNE . | 19 11 39 | 19 19 18 |
| | JULY . | 22 9 13 | 22 2 46 | | JULY . | 19 0 23 | 19 7 33 |
| | AUG. . | 20 21 57 | 20 10 53 | | AUG. . | 17 13 7 | 17 18 33 |
| | SEPT. . | 19 10 41 | 18 21 11 | | SEPT. . | 16 1 51 | 16 4 41 |
| | OCT. . | 19 23 25 | 18 10 18 | | OCT. . | 15 14 35 | 15 14 40 |
| | Nov. . | 17 12 9 | 17 2 21 | | Nov. . | 14 3 19 | 14 1 0 |
| | DEC. . | 17 0 53 | 16 20 40 | | DEC. . | 13 16 3 | 13 11 56 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 845. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 848. A.G. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 16 14 18 | JAN. . | { 12 4 48 | 11 23 29 | 16 7 45 | JAN. . | 9 19 58 | 10 7 4 |
| | ○ | { 26 23 10 | 27 11 37 | | FEB. . | 8 8 42 | 8 18 50 |
| | FEB. . | 10 17 32 | 10 11 43 | | MAR. . | 8 21 26 | 9 4 34 |
| | MAR. . | 12 6 16 | 12 0 50 | | APRIL | 7 10 10 | 7 12 46 |
| | APRIL | 10 19 0 | 10 14 55 | | MAY . | 6 22 54 | 6 20 14 |
| | MAY . | 10 7 44 | 10 5 53 | | JUNE . | 5 11 38 | 5 3 57 |
| | JUNE . | 8 20 28 | 8 21 16 | | JULY . | 5 0 22 | 4 13 0 |
| | JULY . | { 8 9 12 | 8 12 28 | | AUG. . | 3 13 6 | 3 0 20 |
| | ○ | { 23 3 34 | 22 18 36 | | SEPT. . | 2 1 50 | 1 14 30 |
| | AUG. . | 6 21 56 | 7 2 54 | | OCT. . | { 1 14 34 | 1 7 21 |
| | SEPT. . | 5 10 40 | 5 16 18 | | | { 31 3 18 | 31 2 1 |
| | OCT. . | 4 23 24 | 5 4 43 | | ○ | { 14 21 40 | 14 16 38 |
| | NOV. . | 3 12 8 | 3 16 27 | | NOV. . | { 29 16 2 | 29 21 2 |
| | DEC. . | 3 0 52 | 3 3 40 | | DEC. . | 29 4 46 | 29 14 56 |
| 846. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | 849. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. ○ | { 1 13 37 | 1 14 33 | | JAN. . | 27 17 31 | 28 6 32 |
| | | { 16 7 59 | 16 13 37 | | FEB. . | 26 6 15 | 26 19 16 |
| | FEB. . | 31 2 21 | 31 1 6 | | MAR. . | 27 18 59 | 28 5 19 |
| | ... | ... | ... | | APRIL | 26 7 43 | 26 13 20 |
| | MAR. . | { 1 15 5 | 1 11 28 | | ○ | { 11 2 5 | 11 3 21 |
| | | { 31 3 49 | 30 22 9 | | MAY . | { 25 20 27 | 25 20 14 |
| | APRIL | 29 16 33 | 29 9 43 | | JUNE . | 24 9 11 | 24 3 4 |
| | MAY . | 29 5 17 | 28 22 39 | | JULY . | 23 21 55 | 23 10 57 |
| | JUNE . | 27 18 1 | 27 13 6 | | AUG. . | 22 10 39 | 21 20 58 |
| | ○ | { 12 12 23 | 12 11 32 | | SEPT. . | 20 23 23 | 20 9 51 |
| | JULY . | { 27 6 45 | 27 4 42 | | OCT. . | 20 12 7 | 20 1 50 |
| | AUG. . | 25 19 29 | 25 20 49 | | ○ | { 4 6 29 | 4 8 29 |
| 847. B. | | <i>d. h. m.</i> | <i>d. h. m.</i> | | NOV. . | { 19 0 51 | 18 20 17 |
| | SEPT. . | 24 8 13 | 24 12 40 | | DEC. . | 18 13 35 | 18 15 51 |
| | OCT. . | 23 20 57 | 24 3 39 | 850. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | NOV. . | 22 9 41 | 22 17 27 | | JAN. . | 17 2 19 | 17 10 53 |
| | DEC. . | 21 22 25 | 22 5 55 | | FEB. . | 15 15 3 | 16 3 50 |
| | ○ | { 5 16 47 | 5 12 55 | | MAR. . | 17 3 47 | 17 17 48 |
| | JAN. . | { 20 11 9 | 20 17 2 | | APRIL | { 15 16 31 | 16 4 44 |
| | FEB. . | 18 23 53 | 19 2 58 | | ○ | { 30 10 53 | 30 5 14 |
| | MAR. . | 20 12 37 | 20 11 58 | | MAY . | 15 5 15 | 15 13 14 |
| | APRIL | 19 1 21 | 18 20 43 | | JUNE . | 13 17 59 | 13 20 17 |
| | MAY . | 18 14 5 | 18 6 4 | | JULY . | 13 6 43 | 13 3 0 |
| | JUNE . | 17 2 49 | 16 16 54 | | AUG. . | 11 19 27 | 11 10 28 |
| | ○ | { 1 21 11 | 2 3 46 | | SEPT. . | 10 8 11 | 9 19 40 |
| | JULY . | { 16 15 33 | 16 5 50 | | OCT. . | { 9 20 55 | 9 7 26 |
| | AUG. . | 15 4 17 | 14 21 2 | | ○ | { 24 15 17 | 24 21 42 |
| | SEPT. . | 13 17 1 | 13 14 0 | | NOV. . | 8 9 39 | 7 22 5 |
| | OCT. . | 13 5 45 | 13 7 44 | | DEC. . | 7 22 23 | 7 15 21 |
| | NOV. . | 11 18 29 | 12 1 5 | | | | |
| | DEC. . | 11 7 13 | 11 17 5 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 851. D. March. d. h. m. 17 1 11 | | d. h. m. | d. h. m. | A.D. 854. G. March. d. h. m. 16 18 38 | | d. h. m. | d. h. m. |
| | JAN. . | 6 11 8 | 6 10 16 | | JAN. . | 3 2 18 | 2 22 4 |
| | FEB. . | 4 23 52 | 5 5 19 | | FEB. . | 1 15 2 | 1 9 44 |
| | MAR. . | 6 12 36 | 6 22 59 | | O | 16 9 24 | 16 23 5 |
| | APRIL | 5 1 20 | 5 14 9 | | MAR. . | 3 3 46 | 2 22 6 |
| | O | 19 19 42 | 19 13 39 | | APRIL | 1 16 30 | 1 11 23 |
| | MAY . | 4 14 4 | 5 2 24 | | MAY . | 1 5 14 | 1 1 40 |
| | JUNE . | 3 2 48 | 3 12 4 | | JUNE . | 30 17 58 | 30 16 46 |
| | JULY . | 2 15 32 | 2 20 2 | | JULY . | 29 6 42 | 29 8 10 |
| | AUG. . | 1 4 16 | 1 3 22 | | O | 28 19 26 | 28 23 12 |
| | SEPT. . | 30 17 0 | 30 11 7 | | AUG. . | 12 13 48 | 12 2 36 |
| | OCT. . | 29 5 44 | 28 20 9 | | SEPT. . | 27 8 10 | 27 13 24 |
| | NOV. . | 28 18 28 | 28 7 8 | | OCT. . | 25 20 54 | 26 2 36 |
| | DEC. . | 27 7 12 | 26 20 24 | | NOV. . | 25 9 38 | 25 14 55 |
| | | 26 19 56 | 26 11 52 | | DEC. . | 23 22 22 | 24 2 32 |
| | | | | | | 23 11 6 | 23 13 38 |
| 852. C.B. | JAN. . | 25 8 41 | 25 5 3 | 855. F. | JAN. . | 21 23 50 | 22 0 14 |
| | FEB. . | 23 21 25 | 23 22 58 | | FEB. . | 20 12 34 | 20 10 27 |
| | O | 9 15 47 | 9 20 7 | | MAR. . | 22 1 18 | 21 20 38 |
| 16 7 0 | MAR. . | 24 10 9 | 24 16 26 | 17 0 27 | APRIL | 20 14 2 | 20 7 24 |
| | APRIL | 22 22 53 | 23 8 21 | | MAY . | 20 2 46 | 19 19 23 |
| | MAY . | 22 11 37 | 22 22 3 | | JUNE . | 18 15 30 | 18 8 58 |
| | JUNE . | 21 0 21 | 21 9 26 | | JULY . | 18 4 14 | 18 0 3 |
| | JULY . | 20 13 5 | 20 19 3 | | AUG. . | 16 16 58 | 16 16 10 |
| | AUG. . | 19 1 49 | 19 3 44 | | SEPT. . | 15 5 42 | 15 8 29 |
| | SEPT. . | 17 14 33 | 17 12 25 | | OCT. . | 14 18 26 | 15 0 15 |
| | OCT. . | 17 8 17 | 16 21 52 | | NOV. . | 13 7 10 | 13 14 56 |
| | NOV. . | 15 16 1 | 15 8 30 | | DEC. . | 12 19 54 | 13 4 14 |
| | DEC. . | 15 4 45 | 14 20 34 | | | | |
| 853. A. | JAN. . | 13 17 29 | 13 10 3 | 856. E.D. | JAN. . | 11 8 39 | 11 16 4 |
| | FEB. . | 12 6 13 | 12 0 52 | | FEB. . | 9 21 23 | 10 2 26 |
| | O | 27 0 35 | 27 11 57 | 16 6 16 | MAR. . | 10 10 7 | 10 11 39 |
| 16 12 49 | MAR. . | 18 18 57 | 18 16 42 | | APRIL | 8 22 51 | 8 20 12 |
| | APRIL | 12 7 41 | 12 8 59 | | MAY . | 8 11 35 | 8 4 55 |
| | MAY . | 11 20 25 | 12 0 55 | | JUNE . | 7 0 19 | 6 14 44 |
| | JUNE . | 10 9 9 | 10 15 47 | | O | 21 18 41 | 22 3 3 |
| | JULY . | 9 21 53 | 10 5 7 | | JULY . | 6 13 3 | 6 2 23 |
| | AUG. . | 8 10 37 | 8 16 55 | | AUG. . | 5 1 47 | 4 16 35 |
| | O | 23 4 59 | 22 15 18 | | SEPT. . | 3 14 31 | 3 8 53 |
| | SEPT. . | 6 23 21 | 7 3 37 | | OCT. . | 3 3 15 | 3 2 34 |
| | OCT. . | 6 12 5 | 6 13 51 | | NOV. . | 1 15 59 | 1 20 30 |
| | NOV. . | 5 0 49 | 5 0 11 | | DEC. O | 1 4 43 | 1 13 30 |
| | DEC. . | 4 13 33 | 4 10 53 | | | 15 23 5 | 15 13 52 |
| | | | | | | 30 17 27 | 31 4 38 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 857. c. March. d. h. m. 16 12 4 | | d. h. m. | d. h. m. | A.D. 860. G.P. March. d. h. m. 16 5 31 | | d. h. m. | d. h. m. |
| | JAN. . | 29 6 12 | 29 17 36 | | JAN. . | 26 21 22 | 26 23 46 |
| | FEB. . | 27 18 56 | 28 4 4 | | FEB. . | 25 10 6 | 25 18 8 |
| | MAR. . | 29 7 40 | 29 12 48 | | MAR. . | 25 22 50 | 26 10 83 |
| | APRIL | 27 20 24 | 27 20 21 | | ○ | { 9 17 12 | 9 12 36 |
| | MAY . | 27 9 8 | 27 3 41 | | APRIL | { 24 11 34 | 25 0 12 |
| | ○ | { 11 3 30 | 11 12 5 | | MAY . | 24 0 18 | 24 11 5 |
| | JUNE . | { 25 21 52 | 25 11 51 | | JUNE . | 22 13 2 | 22 19 51 |
| | JULY . | 25 10 36 | 24 21 54 | | JULY . | 22 1 46 | 22 3 30 |
| | AUG. . | 23 23 20 | 23 10 40 | | AUG. . | 20 14 30 | 20 11 3 |
| | SEPT. . | 22 12 4 | 22 2 20 | | SEPT. . | 19 3 14 | 18 19 32 |
| | OCT. . | 22 0 48 | 21 20 22 | | ○ | { 3 21 36 | 3 23 49 |
| | NOV. . | 20 13 32 | 20 15 33 | | OCT. . | { 18 15 58 | 18 5 38 |
| | ○ | { 5 7 54 | 5 2 39 | | NOV. . | 17 4 42 | 16 17 47 |
| | DEC. . | { 20 2 16 | 20 10 18 | | DEC. . | 16 17 26 | 16 8 6 |
| 858. B. 16 17 53 | JAN. . | 18 15 0 | 19 3 11 | 861. E. 16 11 20 | JAN. . | 15 6 10 | 15 0 21 |
| | FEB. . | 17 3 44 | 17 17 19 | | FEB. . | 13 18 54 | 13 17 47 |
| | MAR. . | 18 16 28 | 19 4 33 | | MAR. . | { 15 7 38 | 15 11 23 |
| | APRIL | 17 5 12 | 17 13 22 | | ○ | { 30 2 0 | 30 4 18 |
| | MAY . | { 16 17 56 | 16 20 37 | | APRIL | 13 20 22 | 14 4 3 |
| | ○ | { 31 12 13 | 31 14 20 | | MAY . | 13 9 6 | 13 18 52 |
| | JUNE . | 15 6 40 | 15 3 17 | | JUNE . | 11 21 50 | 12 7 27 |
| | JULY . | 14 19 24 | 14 10 31 | | JULY . | 11 10 34 | 11 18 0 |
| | AUG. . | 13 8 8 | 12 19 23 | | AUG. . | 9 23 18 | 10 3 15 |
| | SEPT. . | 11 20 52 | 11 6 50 | | SEPT. . | { 8 12 2 | 8 12 2 |
| | OCT. . | 11 9 36 | 10 21 22 | | ○ | { 23 6 24 | 22 23 38 |
| | NOV. . | { 9 22 20 | 9 14 45 | | OCT. . | 8 0 46 | 7 21 15 |
| | ○ | { 24 16 42 | 24 18 28 | | NOV. . | 6 13 30 | 6 7 24 |
| | DEC. . | 9 11 4 | 9 10 0 | | DEC. . | 6 2 14 | 5 18 46 |
| 859. A. 16 23 42 | JAN. . | 7 23 49 | 8 5 31 | 862. D. 16 17 9 | JAN. . | 4 14 59 | 4 7 26 |
| | FEB. . | 6 12 33 | 6 23 37 | | FEB. . | 3 3 43 | 2 21 23 |
| | MAR. . | 8 1 17 | 8 15 4 | | MAR. . | 4 16 27 | 4 12 28 |
| | APRIL | 6 14 1 | 7 3 24 | | APRIL | 3 5 11 | 3 4 19 |
| | MAY . | 6 2 45 | 6 12 57 | | MAY . | 2 17 55 | 2 20 20 |
| | JUNE . | 4 15 29 | 4 20 35 | | JUNE . | { 1 6 39 | 1 11 47 |
| | JULY . | 4 4 13 | 4 3 22 | | | { 30 19 23 | { 1 2 0 |
| | AUG. . | 2 16 57 | { 2 10 24 | | JULY . | 30 8 7 | { 30 14 45 |
| | | { 1 5 41 | { 31 18 45 | | AUG. . | 23 20 51 | 29 2 12 |
| | SEPT. . | { 30 18 25 | 30 5 16 | | SEPT. . | 27 9 35 | 27 12 52 |
| | OCT. . | 30 7 9 | 29 18 31 | | OCT. . | 26 22 19 | 26 28 20 |
| | NOV. . | 28 19 53 | 28 10 33 | | NOV. . | 25 11 3 | 25 9 57 |
| | DEC. . | 28 8 37 | 28 4 41 | | DEC. . | 24 23 47 | 24 20 53 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 863. c. March. d. h. m. | | d. h. m. | d. h. m. | A.D. 866. f. March. d. h. m. | | d. h. m. | d. h. m. |
| 16 22 57 | JAN. . | 23 12 32 | 23 8 9 | 16 16 24 | JAN. . | 20 3 41 | 20 15 37 |
| | ○ | { 7 6 54 | 7 19 38 | | FEB. . | 18 16 25 | 19 3 13 |
| | FEB. . | { 22 1 16 | 21 19 52 | | MAR. . | 20 5 9 | 20 12 39 |
| | MAR. . | 23 14 0 | 23 8 22 | | APRIL | 18 17 53 | 18 20 32 |
| | APRIL | 22 2 44 | 21 21 52 | | MAY . | 18 6 37 | 18 3 42 |
| | MAY . | 21 15 28 | 21 12 26 | | JUNE . | 16 19 21 | 16 11 13 |
| | JUNE . | 20 4 12 | 20 3 42 | | JULY . | 16 8 5 | 15 20 9 |
| | JULY . | 19 16 56 | 19 19 4 | | AUG. . | 14 20 49 | 14 7 31 |
| | ○ | { 3 11 18 | 3 2 12 | | SEPT. . | 13 9 33 | 12 21 49 |
| | AUG. . | { 18 5 40 | 18 9 59 | | OCT. . | 12 22 17 | 12 14 53 |
| | SEPT. . | 16 18 24 | 16 23 59 | | NOV. . | { 11 11 1 | 11 9 49 |
| | OCT. . | 16 7 8 | 16 13 0 | | ○ | { 26 5 23 | 26 1 31 |
| | NOV. . | 14 19 52 | 15 1 10 | | DEC. . | 10 23 45 | 11 5 5 |
| | DEC. . | 14 8 36 | 14 12 38 | | | | |
| 864. B.A. | JAN. . | { 12 21 20 | 12 23 26 | 867. e. | JAN. . | 9 12 30 | 9 23 8 |
| 16 4 46 | ○ | { 27 15 42 | 27 21 24 | 16 22 13 | FEB. . | 8 1 14 | 8 14 41 |
| | FEB. . | 11 10 4 | 11 9 38 | | MAR. . | 9 13 58 | 10 3 16 |
| | MAR. . | 11 22 43 | 11 19 32 | | APRIL | 8 2 42 | 8 13 6 |
| | APRIL | 10 11 32 | 10 5 39 | | MAY . | { 7 15 26 | 7 20 55 |
| | MAY . | 10 0 16 | 9 16 43 | | ○ | { 22 9 43 | 22 9 51 |
| | JUNE . | 8 13 0 | 8 5 18 | | JUNE . | 6 4 10 | 6 3 41 |
| | JULY . | { 8 1 44 | 7 19 36 | | JULY . | 5 16 54 | 5 10 30 |
| | ○ | { 22 20 6 | 22 19 5 | | AUG. . | 4 5 38 | 3 18 26 |
| | AUG. . | 6 14 28 | 6 11 24 | | SEPT. . | 2 18 22 | 2 4 34 |
| | SEPT. . | 5 3 12 | 5 3 56 | | OCT. . | { 2 7 6 | 1 17 37 |
| | OCT. . | 4 15 56 | 4 20 20 | | ○ | { 31 19 50 | 31 9 44 |
| | NOV. . | 3 4 40 | 3 11 53 | | NOV. . | { 15 14 12 | 15 17 18 |
| | DEC. . | 2 17 24 | 3 2 7 | | ○ | { 30 8 34 | 30 4 14 |
| | | | | | DEC. . | 29 21 18 | 29 23 48 |
| 865. g. | JAN. ○ | { 1 6 9 | 1 14 45 | 868. D.C. | JAN. . | 23 10 3 | 23 18 46 |
| 16 10 35 | | { 16 0 31 | 15 20 54 | 16 4 2 | FEB. . | 26 22 47 | 27 11 33 |
| | FEB. . | { 30 18 53 | 31 1 45 | | MAR. . | 27 11 31 | 28 1 22 |
| | | ... | ... | | APRIL | 26 0 15 | 26 12 11 |
| | MAR. . | { 1 7 37 | 1 11 20 | | ○ | { 10 13 37 | 10 12 5 |
| | | { 30 20 21 | 30 19 55 | | MAY . | { 25 12 59 | 25 20 33 |
| | APRIL | 29 9 5 | 29 4 15 | | JUNE . | 24 1 43 | 24 3 44 |
| | MAY . | 28 21 49 | 28 13 12 | | JULY . | 23 14 27 | 23 10 35 |
| | JUNE . | 27 10 33 | 26 23 45 | | AUG. . | 22 3 11 | 21 18 16 |
| | ○ | { 12 4 55 | 12 11 5 | | SEPT. . | 20 15 55 | 20 3 44 |
| | JULY . | { 26 23 17 | 26 12 39 | | OCT. . | 20 4 39 | 19 15 40 |
| | AUG. . | 25 12 1 | 25 4 0 | | ○ | { 3 23 1 | 4 6 8 |
| | SEPT. . | 24 0 45 | 23 21 17 | | NOV. . | { 18 17 23 | 18 6 21 |
| | OCT. . | 23 13 29 | 23 15 27 | | DEC. . | 18 6 7 | 17 23 30 |
| | NOV. . | 22 2 13 | 22 9 16 | | | | |
| | DEC. . | 21 14 57 | 22 1 34 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 857. C. March. d. h. m. 16 12 4 | | d. h. m. | d. h. m. | A.D. 860. G.F. March. d. h. m. 16 5 31 | | d. h. m. | d. h. m. |
| | JAN. . | 29 6 12 | 29 17 36 | | JAN. . | 26 21 22 | 26 23 46 |
| | FEB. . | 27 18 56 | 28 4 4 | | FEB. . | 25 10 6 | 25 18 8 |
| | MAR. . | 29 7 40 | 29 12 48 | | MAR. . | 25 22 50 | 26 10 33 |
| | APRIL | 27 20 24 | 27 20 21 | | ○ | { 9 17 12 | 9 12 36 |
| | MAY . | 27 9 8 | 27 3 41 | | APRIL | { 24 11 34 | 25 0 12 |
| | ○ | { 11 3 30 | 11 12 5 | | MAY . | 24 0 18 | 24 11 5 |
| | JUNE . | { 25 21 52 | 25 11 51 | | JUNE . | 22 13 2 | 22 19 51 |
| | JULY . | 25 10 36 | 24 21 54 | | JULY . | 22 1 46 | 22 3 30 |
| | AUG. . | 23 23 20 | 23 10 40 | | AUG. . | 20 14 30 | 20 11 3 |
| | SEPT. . | 22 12 4 | 22 2 20 | | SEPT. . | 19 3 14 | 18 19 32 |
| | OCT. . | 22 0 43 | 21 20 22 | | ○ | { 3 21 36 | 3 23 49 |
| | NOV. . | 20 13 32 | 20 15 33 | | OCT. . | { 18 15 58 | 18 5 33 |
| | ○ | { 5 7 54 | 5 2 39 | | NOV. . | 17 4 42 | 16 17 47 |
| | DEC. . | { 20 2 16 | 20 10 18 | | DEC. . | 16 17 26 | 16 8 6 |
| 858. B. 16 17 53 | JAN. . | 18 15 0 | 19 3 11 | 861. E. 16 11 20 | JAN. . | 15 6 10 | 15 0 21 |
| | FEB. . | 17 3 44 | 17 17 19 | | FEB. . | 13 18 54 | 13 17 47 |
| | MAR. . | 18 16 28 | 19 4 33 | | MAR. . | { 15 7 38 | 15 11 23 |
| | APRIL | 17 5 12 | 17 13 22 | | ○ | { 30 2 0 | 30 4 18 |
| | MAY . | { 16 17 56 | 16 20 37 | | APRIL | 13 20 22 | 14 4 3 |
| | ○ | { 31 12 18 | 31 14 20 | | MAY . | 13 9 6 | 13 18 52 |
| | JUNE . | 15 6 40 | 15 3 17 | | JUNE . | 11 21 50 | 12 7 27 |
| | JULY . | 14 19 24 | 14 10 31 | | JULY . | 11 10 34 | 11 18 0 |
| | AUG. . | 13 8 8 | 12 19 23 | | AUG. . | 9 23 18 | 10 3 15 |
| | SEPT. . | 11 20 52 | 11 6 50 | | SEPT. . | { 8 12 2 | 8 12 2 |
| | OCT. . | 11 9 36 | 10 21 22 | | ○ | { 23 6 24 | 22 23 33 |
| | NOV. . | { 9 22 20 | 9 14 45 | | OCT. . | 8 0 46 | 7 21 15 |
| | ○ | { 24 16 42 | 24 18 23 | | NOV. . | 6 13 30 | 6 7 24 |
| | DEC. . | 9 11 4 | 9 10 0 | | DEC. . | 6 2 14 | 5 18 46 |
| 859. A. 16 23 42 | JAN. . | 7 23 49 | 8 5 31 | 862. D. 16 17 9 | JAN. . | 4 14 59 | 4 7 26 |
| | FEB. . | 6 12 33 | 6 23 37 | | FEB. . | 3 3 43 | 2 21 23 |
| | MAR. . | 8 1 17 | 8 15 4 | | MAR. . | 4 16 27 | 4 12 23 |
| | APRIL | 6 14 1 | 7 3 24 | | APRIL | 3 5 11 | 3 4 19 |
| | MAY . | 6 2 45 | 6 12 57 | | MAY . | 2 17 55 | 2 20 20 |
| | JUNE . | 4 15 29 | 4 20 35 | | JUNE . | { 1 6 39 | 1 11 47 |
| | JULY . | 4 4 13 | 4 3 22 | | ○ | { 30 19 23 | 30 14 45 |
| | AUG. . | 2 16 57 | { 2 10 24 | | JULY . | 30 8 7 | { 30 14 45 |
| | SEPT. . | { 1 5 41 | { 31 18 45 | | AUG. . | 28 20 51 | 29 2 12 |
| | ○ | { 30 18 25 | 30 5 16 | | SEPT. . | 27 9 35 | 27 12 52 |
| | OCT. . | 30 7 9 | 29 18 31 | | OCT. . | 26 22 19 | 26 23 20 |
| | NOV. . | 28 19 53 | 28 10 33 | | NOV. . | 25 11 3 | 25 9 57 |
| | DEC. . | 28 8 37 | 28 4 41 | | DEC. . | 24 23 47 | 24 20 53 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 863. C. March. d. h. m. | | d. h. m. | d. h. m. | A.D. 866. F. March. d. h. m. | | d. h. m. | d. h. m. |
| 16 22 57 | JAN. . | 23 12 32 | 23 8 9 | 16 16 24 | JAN. . | 20 3 41 | 20 15 37 |
| | ○ | { 7 6 54 | 7 19 38 | | FEB. . | 18 16 25 | 19 3 13 |
| | FEB. . | { 22 1 16 | 21 19 52 | | MAR. . | 20 5 9 | 20 12 39 |
| | MAR. . | 23 14 0 | 23 8 22 | | APRIL | 18 17 53 | 18 20 32 |
| | APRIL | 22 2 44 | 21 21 52 | | MAY . | 18 6 37 | 18 3 42 |
| | MAY . | 21 15 28 | 21 12 26 | | JUNE . | 16 19 21 | 16 11 13 |
| | JUNE . | 20 4 12 | 20 3 42 | | JULY . | 16 8 5 | 15 20 9 |
| | JULY . | 19 16 56 | 19 19 4 | | AUG. . | 14 20 49 | 14 7 31 |
| | ○ | { 8 11 18 | 8 2 12 | | SEPT. . | 13 9 33 | 12 21 49 |
| | AUG. . | { 18 5 40 | 18 9 59 | | OCT. . | 12 22 17 | 12 14 53 |
| | SEPT. . | 16 18 24 | 16 23 59 | | NOV. . | { 11 11 1 | 11 9 49 |
| | OCT. . | 16 7 8 | 16 13 0 | | ○ | { 26 5 23 | 26 1 31 |
| | NOV. . | 14 19 52 | 15 1 10 | | DEC. . | 10 23 45 | 11 5 5 |
| | DEC. . | 14 8 36 | 14 12 38 | | | | |
| 864. B.A. | JAN. . | { 12 21 20 | 12 23 26 | 867. E. | JAN. . | 9 12 30 | 9 23 8 |
| 16 4 46 | ○ | { 27 15 42 | 27 21 24 | 16 22 13 | FEB. . | 8 1 14 | 8 14 41 |
| | FEB. . | 11 10 4 | 11 9 38 | | MAR. . | 9 13 58 | 10 3 16 |
| | MAR. . | 11 22 48 | 11 19 32 | | APRIL | 8 2 42 | 8 13 6 |
| | APRIL | 10 11 32 | 10 5 39 | | MAY . | { 7 15 26 | 7 20 55 |
| | MAY . | 10 0 16 | 9 16 43 | | ○ | { 22 9 48 | 22 9 51 |
| | JUNE . | 8 13 0 | 8 5 18 | | JUNE . | 6 4 10 | 6 3 41 |
| | JULY . | { 8 1 44 | 7 19 36 | | JULY . | 5 16 54 | 5 10 30 |
| | ○ | { 22 20 6 | 22 19 5 | | AUG. . | 4 5 38 | 3 13 26 |
| | AUG. . | 6 14 28 | 6 11 24 | | SEPT. . | 2 18 22 | 2 4 34 |
| | SEPT. . | 5 3 12 | 5 3 56 | | OCT. . | { 2 7 6 | 1 17 37 |
| | OCT. . | 4 15 56 | 4 20 20 | | ○ | { 15 14 12 | 15 17 18 |
| | NOV. . | 3 4 40 | 3 11 53 | | NOV. . | { 30 8 34 | 30 4 14 |
| | DEC. . | 2 17 24 | 3 2 7 | | DEC. . | 29 21 18 | 29 23 48 |
| 865. G. | JAN. ○ | { 1 6 9 | 1 14 45 | 868. D.C. | JAN. . | 28 10 3 | 23 18 46 |
| 16 10 35 | FEB. . | | ... | 16 4 2 | FEB. . | 26 22 47 | 27 11 33 |
| | MAR. . | { 1 7 37 | 1 11 20 | | MAR. . | 27 11 31 | 28 1 22 |
| | APRIL | { 30 20 21 | 30 19 55 | | APRIL | 26 0 15 | 26 12 11 |
| | MAY . | 29 9 5 | 29 4 15 | | ○ | { 10 13 37 | 10 12 5 |
| | JUNE . | 28 21 49 | 23 13 12 | | MAY . | { 25 12 59 | 25 20 38 |
| | JULY . | 27 10 33 | 26 23 45 | | JUNE . | 24 1 43 | 24 3 44 |
| | ○ | { 12 4 55 | 12 11 5 | | JULY . | 23 14 27 | 23 10 35 |
| | AUG. . | 25 12 1 | 25 4 0 | | AUG. . | 22 3 11 | 21 13 16 |
| | SEPT. . | 24 0 45 | 23 21 17 | | SEPT. . | 20 15 55 | 20 3 44 |
| | OCT. . | 23 13 29 | 23 15 27 | | OCT. . | 20 4 39 | 19 15 40 |
| | NOV. . | 22 2 13 | 22 9 16 | | ○ | { 3 23 1 | 4 6 8 |
| | DEC. . | 21 14 57 | 22 1 34 | | NOV. . | { 18 17 23 | 18 6 21 |
| | | | | | DEC. . | 18 6 7 | 17 23 30 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 869. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 872. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 16 18 51 | 16 18 8 | | JAN. . | 14 10 1 | 14 6 51 |
| <i>d. h. m.</i> | FEB. . | 15 7 35 | 15 12 52 | | FEB. . | { 12 22 45 | 12 18 6 |
| 16 9 50 | MAR. . | 16 20 19 | 17 6 15 | March. | ○ | { 27 17 7 | 28 6 56 |
| | APRIL | { 15 9 3 | 15 21 16 | <i>d. h. m.</i> | MAR. . | 18 11 29 | 18 5 53 |
| | ○ | { 80 3 25 | 29 21 2 | 16 3 17 | APRIL | 12 0 13 | 11 18 33 |
| | MAY . | 14 21 47 | 15 9 29 | | MAY . | 11 12 57 | 11 8 21 |
| | JUNE . | 13 10 31 | 13 19 16 | | JUNE . | 10 1 41 | 9 23 12 |
| | JULY . | 12 23 15 | 13 3 26 | | JULY . | 9 14 25 | 9 14 40 |
| | AUG. . | 11 11 59 | 11 11 5 | | AUG. . | { 8 3 9 | 8 6 8 |
| | SEPT. . | 10 0 43 | 9 19 12 | | ○ | { 22 21 31 | 22 10 20 |
| | OCT. . | 9 13 27 | 9 4 33 | | SEPT. . | 6 15 53 | 6 20 48 |
| | NOV. . | 8 2 11 | 7 15 44 | | OCT. . | 6 4 37 | 6 10 37 |
| | DEC. . | 7 14 55 | 7 4 57 | | NOV. . | 4 17 21 | 4 23 28 |
| | | | | | DEC. . | 4 6 5 | 4 11 26 |
| 870. | JAN. . | 6 3 40 | 5 20 10 | | | | |
| A. | FEB. . | 4 16 24 | 4 12 53 | 873. | JAN. . | 2 18 50 | 2 22 34 |
| 16 15 39 | MAR. . | { 6 5 8 | 6 6 17 | D. | FEB. . | 1 7 34 | 1 8 56 |
| | ○ | { 20 23 30 | 21 4 14 | 16 9 6 | MAR. . | 2 20 18 | 2 18 44 |
| | APRIL | 4 17 52 | 4 23 21 | | APRIL | { 1 9 2 | 1 4 23 |
| | MAY . | 4 6 36 | 4 15 5 | | | { 80 21 46 | 80 14 33 |
| | JUNE . | 2 19 20 | 3 4 49 | | MAY . | 30 10 30 | 30 2 11 |
| | JULY . | { 2 8 4 | 2 16 23 | | JUNE . | 28 23 14 | 28 15 33 |
| | | { 31 20 48 | { 1 2 27 | | JULY . | 28 11 53 | 28 6 41 |
| | AUG. . | 30 9 32 | { 30 11 36 | | AUG. . | 27 0 42 | 26 23 6 |
| | SEPT. . | 23 22 16 | 23 20 45 | | SEPT. . | 25 13 26 | 25 15 56 |
| | OCT. . | 23 11 0 | 23 6 33 | | OCT. . | 25 2 10 | 25 8 17 |
| | NOV. . | 26 23 44 | 26 17 21 | | NOV. . | 23 14 54 | 23 23 27 |
| | DEC. . | 26 12 28 | 26 5 13 | | DEC. . | 23 8 33 | 23 13 1 |
| 871. | JAN. . | 25 1 13 | 24 13 27 | 874. | JAN. . | 21 16 23 | 22 0 49 |
| G. | FEB. . | 23 13 57 | 23 8 42 | C. | FEB. . | 20 5 7 | 20 10 53 |
| 16 21 23 | ○ | { 10 8 19 | 10 20 6 | 16 14 55 | MAR. . | 21 17 51 | 21 19 45 |
| | MAR. . | { 25 2 41 | 24 23 56 | | APRIL | 20 6 35 | 20 3 54 |
| | APRIL | 23 15 25 | 23 15 43 | | MAY . | 19 19 19 | 19 12 13 |
| | MAY . | 23 4 9 | 23 7 26 | | JUNE . | 18 8 8 | 17 21 43 |
| | JUNE . | 21 16 53 | 21 22 21 | | ○ | { 8 2 25 | 8 10 14 |
| | JULY . | 21 5 37 | 21 12 1 | | JULY . | { 17 20 47 | 17 9 20 |
| | AUG. . | 19 13 21 | 20 0 19 | | AUG. . | 16 9 31 | 15 23 30 |
| | ○ | { 3 12 43 | 2 22 46 | | SEPT. . | 14 22 15 | 14 16 2 |
| | SEPT. . | { 18 7 5 | 18 11 36 | | OCT. . | 14 10 59 | 14 10 3 |
| | OCT. . | 17 19 49 | 17 22 22 | | NOV. . | 12 23 43 | 13 4 30 |
| | NOV. . | 16 8 33 | 16 9 3 | | DEC. . | { 12 12 27 | 12 21 51 |
| | DEC. . | 15 21 17 | 15 19 52 | | ○ | { 27 6 49 | 26 22 29 |

JERUSALEM CIVIL TIME.

| Mean Verual Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Verual Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 875. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 878. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| R. | | | | R. | | | |
| March. | JAN. . | 11 1 11 | 11 13 9 | March. | JAN. . | 7 16 21 | 7 12 43 |
| <i>d. h. m.</i> | FEB. . | 9 13 55 | 10 1 55 | <i>d. h. m.</i> | FEB. . | 6 5 5 | 6 7 24 |
| 16 20 43 | MAR. . | 11 2 39 | 11 12 16 | 16 14 10 | MAR. . | 7 17 49 | 8 1 28 |
| | APRIL . | 9 15 23 | 9 20 40 | | APRIL . | 6 6 33 | 6 17 38 |
| | MAY . | 9 4 7 | 9 8 56 | | ○ | 21 0 55 | 20 20 9 |
| | JUNE . | 7 16 51 | 7 11 2 | | MAY . | 5 19 17 | 6 7 13 |
| | ○ | 22 11 13 | 22 18 47 | | JUNE . | 4 8 1 | 4 18 11 |
| | JULY . | 7 5 35 | 6 19 4 | | JULY . | 3 20 45 | 4 3 8 |
| | AUG. . | 5 18 19 | 5 5 6 | | ○ | 2 9 29 | 2 11 6 |
| | SEPT. . | 4 7 3 | 3 17 57 | | AUG. . | 31 22 13 | 31 19 3 |
| | OCT. . | 3 19 47 | 3 9 49 | | SEPT. . | 30 10 57 | 30 8 53 |
| | NOV. . | 2 8 31 | 2 4 6 | | ○ | 15 5 19 | 15 7 26 |
| | ○ | 1 21 15 | 1 23 31 | | OCT. . | 29 23 41 | 29 14 13 |
| | DEC. . | 16 15 37 | 16 11 33 | | NOV. . | 28 12 25 | 28 2 26 |
| | ○ | 31 9 59 | 31 18 25 | | DEC. . | 28 1 9 | 27 16 34 |
| 876. | JAN. . | 29 22 44 | 30 11 19 | 879. | JAN. . | 26 13 53 | 26 8 23 |
| A.D. | FEB. . | 28 11 28 | 29 1 21 | D. | FEB. . | 25 2 37 | 25 1 17 |
| 16 2 32 | MAR. . | 29 0 12 | 29 12 24 | 16 19 59 | MAR. . | 26 15 22 | 26 18 26 |
| | APRIL . | 27 12 56 | 27 21 1 | | ○ | 10 9 44 | 10 12 11 |
| | MAY . | 27 1 40 | 27 4 6 | | APRIL . | 25 4 6 | 25 10 48 |
| | ○ | 10 20 2 | 10 20 47 | | MAY . | 24 16 50 | 25 1 14 |
| | JUNE . | 25 14 24 | 25 10 43 | | JUNE . | 23 5 34 | 23 14 19 |
| | JULY . | 25 3 8 | 24 18 0 | | JULY . | 22 18 18 | 23 1 14 |
| | AUG. . | 23 15 52 | 23 8 0 | | AUG. . | 21 7 2 | 21 10 56 |
| | SEPT. . | 22 4 36 | 21 14 37 | | SEPT. . | 19 19 46 | 19 20 14 |
| | OCT. . | 21 17 20 | 21 5 17 | | ○ | 4 14 8 | 4 7 4 |
| | NOV. . | 20 6 4 | 19 22 45 | | OCT. . | 19 8 30 | 19 5 52 |
| | ○ | 5 0 26 | 5 8 18 | | NOV. . | 17 21 14 | 17 16 16 |
| | DEC. . | 19 18 48 | 19 18 0 | | DEC. . | 17 9 58 | 17 8 37 |
| 877. | JAN. . | 18 7 33 | 18 18 24 | 880. | JAN. . | 15 22 42 | 15 16 0 |
| F. | FEB. . | 16 20 17 | 17 7 20 | G.H. | FEB. . | 14 11 26 | 14 5 26 |
| 16 4 21 | MAR. . | 18 9 1 | 18 22 37 | 16 1 48 | MAR. . | 15 0 10 | 14 19 54 |
| | APRIL . | 16 21 45 | 17 10 50 | | ○ | 20 18 32 | 30 4 46 |
| | MAY . | 16 10 20 | 16 20 19 | | APRIL . | 18 12 54 | 13 11 12 |
| | JUNE . | 14 23 13 | 15 3 58 | | MAY . | 18 1 38 | 13 2 52 |
| | JULY . | 14 11 57 | 14 10 53 | | JUNE . | 11 14 22 | 11 18 15 |
| | AUG. . | 13 0 41 | 12 18 9 | | JULY . | 11 8 6 | 11 8 42 |
| | SEPT. . | 11 13 25 | 11 2 46 | | AUG. . | 9 15 50 | 9 21 55 |
| | OCT. . | 11 2 9 | 10 13 30 | | SEPT. . | 8 4 34 | 8 9 56 |
| | NOV. . | 9 14 53 | 9 2 51 | | ○ | 22 22 56 | 22 9 28 |
| | DEC. . | 9 3 37 | 8 18 48 | | OCT. . | 7 17 18 | 7 21 10 |
| | | | | | NOV. . | 6 6 2 | 6 8 5 |
| | | | | | DEC. . | 5 18 46 | 5 18 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|-------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 881. A. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 884. E.D. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 16 7 36 | JAN. . | 4 7 31 | 4 5 46 | March. <i>d. h. m.</i> 16 1 3 | JAN. . | { 1 22 41 31 11 25 | 2 10 0 ... |
| | FEB. . | { 2 20 15 17 14 37 | 2 16 42 18 3 30 | | FEB. . | ... | 1 0 4 |
| | MAR. . | 4 8 59 | 4 3 55 | | MAR. . | { 1 0 9 30 12 53 | 1 11 30 30 20 39 |
| | APRIL | 2 21 43 | 2 15 47 | | APRIL | 29 1 37 | 29 4 14 |
| | MAY . | { 2 10 27 31 23 11 | 2 4 44 31 18 56 | | MAY . | 28 14 21 | 28 11 8 |
| | JUNE . | 30 11 55 | 30 10 8 | | JUNE . | 27 3 5 | 26 18 31 |
| | JULY . | 30 0 39 | 30 1 46 | | JULY . | 26 15 49 | 26 3 26 |
| | ○ | { 13 19 1 | 13 9 53 | | AUG. . | 25 4 33 | 24 14 50 |
| | AUG. . | { 28 13 23 | 28 17 8 | | SEPT. . | 23 17 17 | 23 5 17 |
| | SEPT. . | 27 2 7 | 27 7 44 | | OCT. . | 23 6 1 | 22 22 35 |
| | OCT. . | 26 14 51 | 26 21 21 | | NOV. . | 21 18 45 | 21 17 44 |
| | NOV. . | 25 3 35 | 25 9 56 | | ○ | { 6 13 7 | 6 10 30 |
| | DEC. . | 24 16 19 | 24 21 33 | | DEC. . | { 21 7 29 | 21 13 9 |
| 882. G. | JAN. . | 23 5 4 | 23 8 14 | 885. C. | JAN. . | 19 20 14 | 20 7 13 |
| 16 13 25 | ○ | { 6 23 26 | 7 5 4 | 16 6 52 | FEB. . | 18 8 58 | 18 22 42 |
| | FEB. . | { 21 17 48 | 21 18 6 | | MAR. . | 19 21 42 | 20 11 8 |
| | MAR. . | 23 6 32 | 23 3 30 | | APRIL | 18 10 26 | 18 20 46 |
| | APRIL | 21 19 16 | 21 13 6 | | MAY . | 17 23 10 | 18 4 25 |
| | MAY . | 21 8 0 | 20 23 41 | | JUNE . | { 1 17 32 16 11 54 | 1 16 19 16 11 7 |
| | JUNE . | 19 20 44 | 19 11 58 | | ○ | 16 0 33 | 15 17 58 |
| | JULY . | 19 9 28 | 19 2 14 | | AUG. . | 14 13 22 | 14 2 3 |
| | ○ | { 3 3 50 | 3 2 46 | | SEPT. . | 13 2 6 | 12 12 22 |
| | AUG. . | { 17 22 12 | 17 18 12 | | OCT. . | 12 14 50 | 12 1 34 |
| | SEPT. . | 16 10 56 | 16 11 10 | | NOV. . | { 11 3 34 25 21 56 | 10 17 45 26 2 9 |
| | OCT. . | 15 23 40 | 16 4 8 | | ○ | 25 21 56 | 26 2 9 |
| | NOV. . | 14 12 24 | 14 20 13 | | DEC. . | 10 16 18 | 10 12 16 |
| | DEC. . | 14 1 8 | 14 10 47 | | | | |
| 883. F. | JAN. . | { 12 13 52 | 12 23 29 | 886. B. | JAN. . | 9 5 2 | 9 7 43 |
| 16 19 14 | ○ | { 27 8 14 | 27 4 47 | 16 12 41 | FEB. . | 7 17 46 | 8 2 28 |
| | FEB. . | 11 2 36 | 11 10 20 | | MAR. . | 9 6 30 | 9 19 6 |
| | MAR. . | 12 15 20 | 12 19 35 | | APRIL | 7 19 14 | 8 8 47 |
| | APRIL | 11 4 4 | 11 3 45 | | MAY . | { 7 7 58 22 2 20 | 7 19 30 21 18 53 |
| | MAY . | 10 16 48 | 10 11 40 | | ○ | 22 2 20 | 21 18 53 |
| | JUNE . | 9 5 32 | 8 20 18 | | JUNE . | 5 20 42 | 6 3 58 |
| | JULY . | { 8 18 16 | 8 6 41 | | JULY . | 5 9 26 | 5 11 10 |
| | ○ | { 23 12 38 | 23 18 27 | | AUG. . | 3 22 10 | 3 18 17 |
| | AUG. . | 7 7 0 | 6 19 32 | | SEPT. . | 2 10 54 | 2 2 13 |
| | SEPT. . | 5 19 44 | 5 11 4 | | OCT. . | { 1 23 38 31 12 22 | 1 11 57 31 0 1 |
| | OCT. . | 5 8 28 | 5 4 40 | | ○ | { 15 6 44 | 15 14 37 |
| | NOV. . | 3 21 12 | 3 23 16 | | NOV. . | { 30 1 6 | 29 14 42 |
| | DEC. . | 3 9 56 | 3 17 23 | | DEC. . | 29 13 50 | 29 7 38 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 887. A. March. d. h. m. 16 18 29 | | d. h. m. | d. h. m. | A.D. 890. D. March. d. h. m. 16 11 56 | | d. h. m. | d. h. m. |
| | JAN. . | 28 2 35 | 28 1 56 | | JAN. . | 24 17 45 | 24 15 35 |
| | FEB. . | 23 15 19 | 23 20 17 | | FEB. . | 23 6 29 | 23 2 22 |
| | MAR. . | 28 4 3 | 28 13 23 | | ○ | 10 0 51 | 10 14 39 |
| | APRIL . | 26 16 47 | 27 4 14 | | MAR. . | 24 19 13 | 24 18 34 |
| | ○ | 11 11 9 | 11 4 20 | | APRIL . | 23 7 57 | 23 1 39 |
| | MAY . | 26 5 31 | 26 16 30 | | MAY . | 22 20 41 | 22 15 1 |
| | JUNE . | 21 18 15 | 25 2 27 | | JUNE . | 21 9 25 | 21 5 40 |
| | JULY . | 21 6 59 | 21 10 56 | | JULY . | 20 22 9 | 20 21 13 |
| | AUG. . | 22 19 43 | 22 18 57 | | AUG. . | 19 10 53 | 19 13 0 |
| | SEPT. . | 21 8 27 | 21 3 27 | | ○ | 8 5 15 | 2 18 13 |
| | OCT. . | 20 21 11 | 20 13 8 | | SEPT. . | 17 23 37 | 18 4 19 |
| | NOV. . | 19 9 55 | 19 0 27 | | OCT. . | 17 12 21 | 17 18 46 |
| | DEC. . | 18 22 39 | 18 13 34 | | NOV. . | 16 1 5 | 16 8 6 |
| | | | | | DEC. . | 15 13 49 | 15 20 19 |
| 888. G.V. 16 0 18 | JAN. . | 17 11 21 | 17 4 25 | 891. G. 16 17 45 | JAN. . | 14 2 34 | 14 7 27 |
| | FEB. . | 16 0 8 | 15 20 37 | | FEB. . | 12 15 18 | 12 17 32 |
| | MAR. . | 16 12 52 | 16 13 29 | | MAR. . | 14 4 2 | 14 2 54 |
| | ○ | 31 7 14 | 31 12 14 | | APRIL . | 12 16 46 | 12 12 3 |
| | APRIL . | 15 1 36 | 15 6 9 | | MAY . | 12 5 30 | 11 21 48 |
| | MAY . | 14 14 20 | 14 21 45 | | JUNE . | 10 18 14 | 10 8 59 |
| | JUNE . | 13 3 4 | 13 11 34 | | JULY . | 10 6 58 | 9 22 10 |
| | JULY . | 12 15 48 | 12 23 30 | | AUG. . | 8 19 42 | 8 13 25 |
| | AUG. . | 11 4 32 | 11 9 57 | | ○ | 23 14 4 | 23 10 31 |
| | SEPT. . | 9 17 16 | 9 19 36 | | SEPT. . | 7 8 26 | 7 6 10 |
| | OCT. . | 9 6 0 | 9 5 14 | | OCT. . | 6 21 10 | 6 23 30 |
| | NOV. . | 7 18 44 | 7 15 21 | | NOV. . | 5 9 54 | 5 16 25 |
| | DEC. . | 7 7 28 | 7 2 16 | | DEC. . | 4 22 38 | 5 7 59 |
| 889. H. 10 6 7 | JAN. . | 5 20 12 | 5 14 2 | 892. H.A. 15 23 31 | JAN. . | 3 11 22 | 3 21 43 |
| | FEB. . | 4 8 53 | 4 2 43 | | FEB. . | 2 0 6 | 2 9 27 |
| | MAR. . | 5 21 40 | 5 16 23 | | MAR. . | 2 12 50 | 2 19 13 |
| | ○ | 20 16 2 | 21 4 3 | | APRIL . | 1 1 34 | 1 3 44 |
| | APRIL . | 4 10 24 | 4 7 0 | | ○ | 30 14 18 | 30 11 28 |
| | MAY . | 3 23 8 | 3 22 21 | | MAY . | 30 3 2 | 29 19 27 |
| | JUNE . | 2 11 52 | 2 13 53 | | JUNE . | 28 15 46 | 28 4 44 |
| | ○ | 2 0 36 | 2 4 55 | | ○ | 13 10 8 | 13 17 26 |
| | JULY . | 31 18 20 | 31 18 57 | | JULY . | 28 4 30 | 27 16 16 |
| | AUG. . | 30 2 4 | 30 7 49 | | AUG. . | 26 17 14 | 26 6 32 |
| | ○ | 13 20 26 | 13 6 24 | | SEPT. . | 25 5 58 | 24 23 20 |
| | SEPT. . | 28 14 48 | 28 19 41 | | OCT. . | 24 18 42 | 24 13 48 |
| | OCT. . | 28 3 32 | 28 6 58 | | NOV. . | 23 7 26 | 23 12 33 |
| | NOV. . | 26 16 16 | 26 17 53 | | DEC. . | 22 20 10 | 23 6 9 |
| | DEC. . | 26 5 0 | 26 4 49 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|-----------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 893. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 896. D.C. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 6 14 32 | 6 7 5 | 15 22 49 | JAN. . | 19 0 5 | 18 20 39 |
| March. | JAN. . | { 21 8 54 | 21 21 33 | | FEB. . | 17 12 49 | 17 11 56 |
| <i>d. h. m.</i> | FEB. . | 19 21 39 | 20 10 14 | | MAR. . | 18 1 33 | 18 8 39 |
| 16 5 22 | MAR. . | 21 10 23 | 21 20 20 | | APRIL | 16 14 17 | 17 0 37 |
| | APRIL | 19 23 7 | 20 4 25 | | ○ | { 1 8 39 | 1 3 39 |
| | MAY . | 19 11 51 | 19 11 26 | | MAY . | { 16 3 1 | 16 14 10 |
| | JUNE . | 18 0 35 | 17 18 24 | | JUNE . | 14 15 45 | 15 1 15 |
| | ○ | { 2 18 57 | 3 1 30 | | JULY . | 14 4 29 | 14 10 23 |
| | JULY . | { 17 13 19 | 17 2 23 | | AUG. . | 12 17 13 | 12 18 48 |
| | AUG. . | 16 2 3 | 15 13 28 | | SEPT. . | 11 5 57 | 11 3 10 |
| | SEPT. . | 14 14 47 | 14 1 27 | | OCT. . | { 10 18 41 | 10 12 22 |
| | OCT. . | 14 3 31 | 13 17 30 | | ○ | { 25 13 3 | 25 15 13 |
| | NOV. . | 12 16 15 | 12 11 58 | | NOV. . | 9 7 25 | 8 22 57 |
| | DEC. . | { 12 4 59 | 12 7 31 | | DEC. . | 8 20 9 | 8 11 9 |
| | ○ | { 26 23 21 | 26 20 29 | | | | |
| 894. F. | JAN. . | 10 17 43 | 11 2 27 | 897. B. | JAN. . | 7 8 53 | 7 1 0 |
| 16 11 11 | FEB. . | 9 6 27 | 9 19 18 | 16 4 38 | FEB. . | 5 21 37 | 5 16 20 |
| | MAR. . | 10 19 11 | 11 9 11 | | MAR. . | 7 10 21 | 7 8 41 |
| | APRIL | 9 7 55 | 9 20 5 | | APRIL | { 5 23 5 | 6 1 20 |
| | MAY . | 8 20 39 | 9 4 31 | | ○ | { 20 17 27 | 20 19 56 |
| | JUNE . | { 7 9 23 | 7 11 32 | | MAY . | 5 11 49 | 5 17 26 |
| | ○ | { 22 3 45 | 22 3 13 | | JUNE . | 4 0 33 | 4 8 12 |
| | JULY . | 6 22 7 | 6 18 11 | | JULY . | 3 13 17 | 3 21 11 |
| | AUG. . | 5 10 51 | 5 1 36 | | AUG. . | { 2 2 1 | 2 8 31 |
| | SEPT. . | 3 23 35 | 3 10 47 | | | { 31 14 45 | 31 18 44 |
| | OCT. . | 3 12 19 | 2 22 34 | | SEPT. . | 30 8 29 | 30 4 32 |
| | NOV. . | 2 1 3 | 1 13 21 | | ○ | { 14 21 51 | 14 14 39 |
| | DEC. ○ | { 1 13 47 | 1 6 43 | | OCT. . | { 29 16 13 | 29 14 33 |
| | | { 16 8 9 | 16 12 14 | | NOV. . | 28 4 57 | 28 1 10 |
| | | { 31 2 31 | 31 1 55 | | DEC. . | 27 17 41 | 27 12 27 |
| 895. E. | JAN. . | 29 15 15 | 29 21 8 | 898. A. | JAN. . | 26 6 26 | 26 0 31 |
| 16 17 0 | FEB. . | 28 4 0 | 28 14 53 | 16 10 27 | FEB. . | 24 19 10 | 24 18 23 |
| | MAR. . | 29 16 44 | 30 5 59 | | MAR. . | 26 7 54 | 26 3 14 |
| | APRIL | 28 5 28 | 23 13 7 | | ○ | { 10 2 16 | 10 12 32 |
| | MAY . | 27 13 12 | 23 3 36 | | APRIL | { 24 20 38 | 24 18 2 |
| | JUNE . | 26 6 56 | 26 11 21 | | MAY . | 24 9 22 | 24 9 23 |
| | JULY . | 25 19 40 | 25 18 23 | | JUNE . | 22 22 6 | 23 0 44 |
| | AUG. . | 24 8 24 | 24 2 1 | | JULY . | 22 10 50 | 22 15 23 |
| | SEPT. . | 22 21 8 | 22 10 55 | | AUG. . | 20 23 34 | 21 5 10 |
| | OCT. . | 22 9 52 | 21 21 52 | | SEPT. . | 19 12 18 | 19 17 43 |
| | NOV. . | 20 22 36 | 20 11 16 | | ○ | { 4 6 40 | 3 17 16 |
| | DEC. . | 20 11 20 | 20 3 4 | | OCT. . | { 19 1 2 | 19 5 33 |
| | | | | | NOV. . | 17 13 46 | 17 13 54 |
| | | | | | DEC. . | 17 2 30 | 17 8 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 899. g. March. d. h. m. 16 16 15 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 902. c. March. d. h. m. 16 9 42 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 15 15 15 | 15 14 38 | | JAN. . | 12 6 25 | 12 18 21 |
| | FEB. . | 14 8 59 | 14 1 11 | | FEB. . | 10 19 9 | 11 8 22 |
| | MAR. . | 15 16 43 | 15 11 50 | | MAR. . | 12 7 53 | 12 19 36 |
| | APRIL . | 14 5 27 | 13 23 7 | | APRIL . | 10 20 37 | 11 4 28 |
| | MAY . | 13 18 11 | 13 11 34 | | MAY . | 10 9 21 | 10 11 48 |
| | JUNE . | 12 6 55 | 12 1 28 | | JUNE . | 8 22 5 | 8 18 35 |
| | JULY . | 11 19 39 | 11 16 37 | | JULY . | 8 10 49 | 8 1 52 |
| | AUG. . | 10 8 23 | 10 8 31 | | AUG. . | 6 23 33 | 6 10 49 |
| | ○ | 25 2 45 | 24 17 44 | | SEPT. . | 5 12 17 | 4 22 23 |
| | SEPT. . | 8 21 7 | 9 0 21 | | OCT. . | 5 1 1 | 4 12 57 |
| | OCT. . | 8 9 51 | 8 15 38 | | NOV. . | 3 13 45 | 3 6 25 |
| | NOV. . | 6 22 35 | 7 5 43 | | DEC. . | 3 2 29 | 3 1 41 |
| | DEC. . | 6 11 19 | 6 18 46 | | ○ | 17 20 51 | 17 19 29 |
| 900. F.E. 15 22 4 | JAN. . | 5 0 3 | 5 6 28 | 903. B. 16 15 31 | JAN. . | 1 15 13 | 1 21 10 |
| | FEB. . | 3 12 47 | 3 16 56 | | FEB. . | 31 3 57 | 31 15 11 |
| | ○ | 18 7 9 | 18 12 34 | | ... | ... | ... |
| | MAR. . | 4 1 31 | 4 2 21 | | MAR. . | 1 16 41 | 2 6 33 |
| | APRIL . | 2 11 15 | 2 11 19 | | ... | 31 5 25 | 31 18 48 |
| | MAY . | 2 2 59 | 1 20 26 | | APRIL . | 29 18 9 | 30 4 18 |
| | ... | 31 15 43 | 31 6 38 | | MAY . | 29 6 53 | 29 11 52 |
| | JUNE . | 30 4 27 | 29 18 41 | | ○ | 13 1 15 | 12 22 46 |
| | JULY . | 29 17 11 | 29 8 54 | | JUNE . | 27 19 37 | 27 18 34 |
| | ○ | 18 11 33 | 13 10 30 | | JULY . | 27 8 21 | 27 1 32 |
| | AUG. . | 28 5 55 | 28 1 7 | | AUG. . | 25 21 5 | 25 9 49 |
| | SEPT. . | 26 18 39 | 26 18 30 | | SEPT. . | 24 9 49 | 23 20 18 |
| | OCT. . | 23 7 28 | 26 12 1 | | OCT. . | 23 22 33 | 23 9 39 |
| | NOV. . | 21 20 7 | 25 4 31 | | NOV. . | 22 11 17 | 22 1 52 |
| | DEC. . | 24 8 51 | 21 19 25 | | ○ | 7 5 39 | 7 11 3 |
| | | | | | DEC. . | 22 0 1 | 21 20 16 |
| 901. D. 16 8 53 | JAN. . | 22 21 36 | 23 8 9 | 904. A.G. 15 21 20 | JAN. . | 20 12 46 | 20 15 32 |
| | ○ | 6 15 58 | 6 12 35 | | FEB. . | 19 1 30 | 19 10 3 |
| | FEB. . | 21 10 20 | 21 18 48 | | MAR. . | 19 14 14 | 20 2 30 |
| | MAR. . | 22 23 4 | 23 3 40 | | APRIL . | 18 2 58 | 18 16 2 |
| | APRIL . | 21 11 48 | 21 11 29 | | MAY . | 17 15 42 | 18 2 45 |
| | MAY . | 21 0 32 | 20 19 3 | | ○ | 1 10 4 | 1 1 40 |
| | JUNE . | 19 18 16 | 19 3 26 | | JUNE . | 16 4 26 | 16 11 16 |
| | JULY . | 19 2 0 | 18 13 43 | | JULY . | 15 17 10 | 15 18 42 |
| | ○ | 2 20 22 | 3 1 53 | | AUG. . | 14 5 54 | 14 2 2 |
| | AUG. . | 17 14 44 | 17 2 36 | | SEPT. . | 12 18 38 | 12 10 18 |
| | SEPT. . | 16 8 23 | 15 18 18 | | OCT. . | 12 7 22 | 11 20 18 |
| | OCT. . | 13 16 12 | 15 12 13 | | NOV. . | 10 20 6 | 10 8 31 |
| | NOV. . | 14 4 56 | 14 7 11 | | ○ | 25 14 23 | 25 23 9 |
| | DEC. . | 13 17 40 | 14 1 40 | | DEC. . | 10 8 50 | 9 23 6 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 905. F. March. <i>d. h. m.</i> 16 8 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 908. C.B. March. <i>d. h. m.</i> 15 20 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 8 21 35 | 8 15 46 | | JAN. . | 6 12 44 | 6 13 45 |
| | FEB. . | 7 10 19 | 7 9 37 | | FEB. . | 5 1 28 | 5 0 13 |
| | MAR. . | 8 23 3 | 9 3 35 | | MAR. . | { 5 14 12 | 5 10 30 |
| | APRIL | 7 11 47 | 7 20 23 | | ○ | { 20 8 34 | 20 22 10 |
| | MAY . | { 7 0 31 | 7 11 7 | | APRIL | 4 2 56 | 3 21 7 |
| | ○ | { 21 18 53 | 21 11 36 | | MAY . | 3 15 40 | 3 8 40 |
| | JUNE . | 5 13 15 | 5 23 27 | | JUNE . | 2 4 24 | 1 21 38 |
| | JULY . | 5 1 59 | 5 9 39 | | JULY . | { 1 17 8 | 1 12 9 |
| | AUG. . | 3 14 43 | 3 18 29 | | | { 31 5 52 | 31 3 50 |
| | SEPT. . | 2 3 27 | 2 2 55 | | AUG. . | 29 18 36 | 29 20 2 |
| | | { 1 16 11 | 1 11 49 | | ○ | { 13 12 58 | 13 2 14 |
| | OCT. . | { 31 4 55 | 30 21 49 | | SEPT. . | { 28 7 20 | 28 11 57 |
| | NOV. . | 29 17 39 | 29 9 14 | | OCT. . | 27 20 4 | 28 2 58 |
| | DEC. . | 29 6 23 | 28 22 11 | | NOV. . | 26 8 43 | 26 16 47 |
| | | | | | DEC. . | 25 21 32 | 26 5 11 |
| 906. E. 16 8 57 | JAN. . | 27 19 7 | 27 12 36 | 909. A. 16 2 24 | JAN. . | 24 10 17 | 24 16 13 |
| | FEB. . | 26 7 51 | 26 4 14 | | FEB. . | 22 23 1 | 23 2 0 |
| | MAR. . | 27 20 35 | 27 20 33 | | MAR. . | 24 11 45 | 24 10 54 |
| | APRIL | 26 9 19 | 26 12 51 | | APRIL | 23 0 29 | 22 19 34 |
| | MAY . | 25 22 3 | 26 4 18 | | MAY . | 22 13 13 | 22 4 55 |
| | JUNE . | 24 10 47 | 24 18 16 | | JUNE . | 21 1 57 | 20 15 48 |
| | JULY . | 23 23 31 | 24 6 35 | | JULY . | 20 14 41 | 20 4 53 |
| | AUG. . | 22 12 15 | 22 17 31 | | AUG. . | 19 3 25 | 18 20 15 |
| | SEPT. . | 21 0 59 | 21 3 43 | | ○ | { 2 21 47 | 2 18 29 |
| | OCT. . | 20 13 43 | 20 13 48 | | SEPT. . | { 17 16 9 | 17 13 21 |
| | NOV. . | 19 2 27 | 19 0 14 | | OCT. . | 17 4 53 | 17 7 11 |
| | DEC. . | 18 15 11 | 18 11 11 | | NOV. . | 15 17 37 | 16 0 34 |
| | | | | | DEC. . | 15 6 21 | 15 16 30 |
| 907. D. 16 14 46 | JAN. . | 17 3 56 | 16 22 44 | 910. G. 16 8 13 | JAN. . | 13 19 6 | 14 6 23 |
| | FEB. . | 15 16 40 | 15 10 55 | | FEB. . | 12 7 50 | 12 17 58 |
| | MAR. . | { 17 5 24 | 16 23 59 | | MAR. . | 13 20 34 | 14 3 31 |
| | ○ | { 31 23 46 | { 1 11 52 | | APRIL | 12 9 18 | 12 11 35 |
| | APRIL | 15 18 8 | { 15 14 1 | | MAY . | 11 22 2 | 11 18 59 |
| | MAY . | 15 6 52 | 15 4 57 | | JUNE . | 10 10 46 | 10 2 43 |
| | JUNE . | 13 19 36 | 13 20 19 | | JULY . | { 9 23 30 | 9 11 51 |
| | JULY . | 13 8 20 | 13 11 31 | | ○ | { 24 17 52 | 25 0 41 |
| | AUG. . | 11 21 4 | 12 1 59 | | AUG. . | 8 12 14 | 7 23 21 |
| | SEPT. . | { 10 9 48 | 10 15 26 | | SEPT. . | 7 0 58 | 6 13 45 |
| | ○ | { 25 4 10 | 24 14 13 | | OCT. . | 6 13 42 | 6 6 48 |
| | OCT. . | 9 22 32 | 10 3 55 | | NOV. . | 5 2 26 | 5 1 34 |
| | NOV. . | 8 11 16 | 8 15 40 | | DEC. . | 4 15 10 | 4 20 37 |
| | DEC. . | 8 0 0 | 8 2 55 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 911. r. | | d. h. m. | d. h. m. | A.D. 914. r. | | d. h. m. | d. h. m. |
| March, d. h. m. | JAN. . | 3 3 54 | 3 14 25 | March, d. h. m. | JAN. . | 29 7 48 | 29 4 32 |
| 16 11 1 | FEB. . | 17 22 16 | 17 15 39 | 16 7 27 | FEB. . | 27 20 32 | 27 22 21 |
| | MAR. . | 1 16 38 | 2 5 49 | | MAR. . | 29 9 16 | 29 15 41 |
| | APRIL . | 3 5 22 | 3 18 21 | | APRIL . | 27 22 0 | 28 7 25 |
| | MAY . | 1 18 6 | 2 4 12 | | ○ | 12 16 22 | 12 11 3 |
| | JUNE . | 1 6 50 | 1 12 5 | | MAY . | 27 10 41 | 27 20 59 |
| | JULY . | 13 19 34 | 30 18 54 | | JUNE . | 25 23 28 | 26 8 16 |
| | AUG. . | 24 8 18 | 29 1 47 | | JULY . | 25 12 12 | 25 17 52 |
| | SEPT. . | 14 2 40 | 14 8 14 | | AUG. . | 24 0 56 | 24 2 36 |
| | OCT. . | 28 21 2 | 28 9 46 | | SEPT. . | 22 18 40 | 22 11 24 |
| | NOV. . | 27 9 46 | 26 19 58 | | OCT. . | 22 2 21 | 21 20 58 |
| | DEC. . | 25 22 30 | 25 9 6 | | ○ | 5 20 46 | 5 23 8 |
| | | 25 11 14 | 25 1 17 | | NOV. . | 20 15 8 | 20 7 45 |
| | | 23 23 58 | 23 19 52 | | DEC. . | 20 8 52 | 19 19 52 |
| | | 23 12 42 | 23 15 28 | | | | |
| 912. r. | | 7 7 5 | 7 5 24 | 915. r. | JAN. . | 18 16 37 | 18 9 24 |
| 15 19 50 | JAN. . | 22 1 27 | 22 10 24 | 16 13 16 | FEB. . | 17 5 21 | 17 0 12 |
| | FEB. . | 20 14 11 | 21 3 9 | | MAR. . | 18 18 5 | 18 15 58 |
| | MAR. . | 21 2 55 | 21 16 53 | | APRIL . | 17 6 49 | 17 8 9 |
| | APRIL . | 19 15 39 | 20 3 37 | | ○ | 2 1 11 | 2 3 35 |
| | MAY . | 19 4 23 | 19 11 58 | | MAY . | 16 19 33 | 17 0 0 |
| | JUNE . | 17 17 7 | 17 18 50 | | JUNE . | 15 8 17 | 15 14 47 |
| | ○ | 2 11 29 | 2 9 40 | | JULY . | 14 21 1 | 15 4 5 |
| | JULY . | 17 5 51 | 17 1 44 | | AUG. . | 13 9 45 | 13 15 53 |
| | AUG. . | 15 18 35 | 15 9 19 | | SEPT. . | 11 22 29 | 12 2 38 |
| | SEPT. . | 11 7 19 | 13 18 42 | | OCT. . | 11 11 13 | 11 12 59 |
| | OCT. . | 13 20 3 | 13 6 40 | | ○ | 26 5 35 | 25 22 20 |
| | NOV. . | 12 8 47 | 11 21 32 | | NOV. . | 9 23 57 | 9 23 28 |
| | DEC. . | 11 21 31 | 11 14 56 | | DEC. . | 9 12 41 | 9 10 8 |
| | ○ | 26 15 53 | 26 21 11 | | | | |
| 913. r. | JAN. . | 10 10 16 | 10 9 51 | 916. r. | JAN. . | 8 1 26 | 7 21 19 |
| 16 1 30 | FEB. . | 8 28 0 | 9 4 49 | 15 19 5 | FEB. . | 6 14 10 | 6 8 56 |
| | MAR. . | 10 11 44 | 10 22 18 | | MAR. . | 7 2 54 | 6 21 14 |
| | APRIL . | 9 0 28 | 9 13 14 | | APRIL . | 5 15 38 | 5 10 28 |
| | MAY . | 8 13 12 | 9 1 18 | | ○ | 20 10 0 | 20 20 11 |
| | JUNE . | 7 1 56 | 7 10 50 | | MAY . | 5 4 22 | 5 0 44 |
| | JULY . | 6 14 40 | 6 18 47 | | JUNE . | 3 17 6 | 3 15 50 |
| | AUG. . | 5 8 24 | 5 2 8 | | JULY . | 3 5 50 | 3 7 14 |
| | SEPT. . | 3 16 8 | 3 10 1 | | ○ | 1 18 34 | 1 22 18 |
| | OCT. . | 3 4 52 | 2 19 13 | | AUG. . | 31 7 18 | 31 12 32 |
| | NOV. . | 1 17 30 | 1 6 23 | | SEPT. . | 29 20 2 | 30 1 47 |
| | DEC. . | 1 6 20 | 1 19 47 | | ○ | 14 14 24 | 14 1 13 |
| | | 13 19 4 | 30 11 21 | | OCT. . | 29 8 46 | 29 14 9 |
| | | | | | NOV. . | 27 21 30 | 28 1 48 |
| | | | | | DEC. . | 27 10 14 | 27 12 52 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 917. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 920. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| E. | | | | B.A. | | | |
| March. | JAN. . | 25 22 58 | 25 23 23 | March. | JAN. . | 23 14 8 | 24 2 35 |
| <i>d. h. m.</i> | FEB. . | 24 11 42 | 24 9 30 | <i>d. h. m.</i> | FEB. . | 22 2 52 | 22 16 30 |
| 16 0 54 | MAR. . | 26 0 26 | 25 19 37 | 15 18 20 | MAR. . | 22 15 36 | 23 3 32 |
| | APRIL | 24 13 10 | 24 6 21 | | APRIL | 21 4 20 | 21 12 11 |
| | MAY . | 24 1 54 | 23 18 21 | | MAY . | 20 17 4 | 20 19 19 |
| | JUNE . | 22 14 33 | 22 7 59 | | JUNE . | 19 5 48 | 19 1 59 |
| | JULY . | 22 3 22 | 21 23 11 | | JULY . | 18 18 32 | 18 9 17 |
| | AUG. . | 20 16 6 | 20 15 23 | | AUG. . | 17 7 16 | 16 18 19 |
| | SEPT. . | 19 4 50 | 19 7 47 | | SEPT. . | 15 20 0 | 15 6 0 |
| | OCT. . | 18 17 34 | 18 23 37 | | OCT. . | 15 8 44 | 14 20 45 |
| | NOV. . | 17 6 18 | 17 14 18 | | NOV. . | 13 21 28 | 13 14 18 |
| | DEC. . | 16 19 2 | 17 3 33 | | DEC. . | { 13 10 12 | 13 9 38 |
| | | | | | ○ | { 28 4 34 | 28 4 25 |
| 918. | JAN. . | 15 7 47 | 15 15 16 | 921. | JAN. . | 11 22 57 | 12 5 5 |
| D. | FEB. . | { 13 20 31 | 14 1 31 | G. | FEB. . | 10 11 41 | 10 23 1 |
| 16 6 43 | ○ | { 28 14 53 | 28 20 0 | 16 0 9 | MAR. . | 12 0 25 | 12 14 14 |
| | MAR. . | 15 9 15 | 15 10 36 | | APRIL | 10 13 9 | 11 2 21 |
| | APRIL | 13 21 59 | 13 19 4 | | MAY . | 10 1 53 | 10 11 45 |
| | MAY . | 13 10 43 | 13 3 44 | | JUNE . | { 8 14 37 | 8 19 17 |
| | JUNE . | 11 23 27 | 11 13 35 | | ○ | { 23 8 59 | 23 5 12 |
| | JULY . | 11 12 11 | 11 1 27 | | JULY . | 8 3 21 | 8 2 3 |
| | AUG. . | { 10 0 55 | 9 15 44 | | AUG. . | 6 16 5 | 6 9 12 |
| | ○ | { 24 19 17 | 24 18 23 | | SEPT. . | 5 4 49 | 4 17 42 |
| | SEPT. . | 8 13 30 | 8 8 12 | | OCT. . | 4 17 33 | 4 4 26 |
| | OCT. . | 8 2 23 | 8 2 0 | | NOV. . | 3 6 17 | 2 17 53 |
| | NOV. . | 6 15 7 | 6 19 59 | | DEC. . | { 2 19 1 | 2 10 4 |
| | DEC. . | 6 3 51 | 6 12 58 | | ○ | { 17 13 23 | 17 19 57 |
| 919. | JAN. . | 4 16 36 | 5 4 0 | 922. | JAN. . | { 1 7 45 | 1 4 18 |
| C. | FEB. . | { 3 5 20 | 3 16 42 | F. | FEB. . | { 30 20 29 | 30 23 16 |
| 16 12 32 | ○ | { 17 23 42 | 17 20 18 | 16 5 53 | MAR. . | { 1 9 13 | 1 17 30 |
| | MAR. . | 4 13 4 | 5 3 5 | | ○ | { 30 21 57 | 31 9 42 |
| | APRIL | 3 6 48 | 3 11 40 | | APRIL | 29 10 41 | 29 23 9 |
| | MAY . | 2 19 32 | 2 19 7 | | MAY . | 23 23 25 | 29 9 54 |
| | JUNE . | { 1 8 16 | 1 2 25 | | ○ | { 12 17 47 | 12 8 26 |
| | ○ | { 30 21 0 | 30 10 39 | | JUNE . | { 27 12 9 | 27 18 36 |
| | JULY . | 30 9 44 | 29 20 51 | | JULY . | 27 0 53 | 27 2 14 |
| | ○ | { 14 4 6 | 14 9 25 | | AUG. . | 25 13 37 | 25 9 55 |
| | AUG. . | { 28 22 28 | 28 9 48 | | SEPT. . | 24 2 21 | 23 18 32 |
| | SEPT. . | 27 11 12 | 27 1 42 | | OCT. . | 23 15 5 | 23 4 49 |
| | OCT. . | 26 23 56 | 26 19 54 | | NOV. . | 22 3 49 | 21 17 6 |
| | NOV. . | 25 12 40 | 25 15 8 | | ○ | { 6 22 11 | 7 7 41 |
| | DEC. . | 25 1 24 | 25 9 50 | | DEC. . | { 21 16 33 | 21 7 32 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 923. E. March. d. h. m. 16 11 47 | | d. h. m. | d. h. m. | A.D. 926. A. March. d. h. m. 16 5 14 | | d. h. m. | d. h. m. |
| | JAN. . | 20 5 18 | 19 23 49 | | JAN. . | 16 20 28 | 16 22 36 |
| | FEB. . | 18 18 2 | 18 17 12 | | FEB. . | 15 9 12 | 15 8 44 |
| | MAR. . | 20 6 46 | 20 10 42 | | MAR. . | 16 21 56 | 16 18 32 |
| | APRIL | 18 19 30 | 19 3 13 | | ○ | 31 16 18 | 1 5 33 |
| | MAY . | 18 8 14 | 18 17 51 | | APRIL | 15 10 40 | 15 4 35 |
| | ○ | 2 2 33 | 1 18 50 | | MAY . | 14 23 24 | 14 15 39 |
| | JUNE . | 16 20 58 | 17 6 20 | | JUNE . | 13 12 8 | 13 4 16 |
| | JULY . | 16 9 42 | 16 16 50 | | JULY . | 13 0 52 | 12 18 42 |
| | AUG. . | 14 22 26 | 15 2 6 | | AUG. . | 11 13 36 | 11 10 35 |
| | SEPT. . | 13 11 10 | 13 11 1 | | SEPT. . | 10 2 20 | 10 3 12 |
| | OCT. . | 12 23 54 | 12 20 21 | | ○ | 24 20 42 | 24 10 26 |
| | NOV. . | 11 12 38 | 11 6 36 | | OCT. . | 9 15 4 | 9 19 41 |
| | DEC. . | 11 1 22 | 10 18 3 | | NOV. . | 8 3 48 | 8 11 17 |
| | | | | | DEC. . | 7 16 32 | 8 1 28 |
| 924. D.C. 15 17 36 | JAN. . | 9 14 7 | 9 6 46 | 927. G. 16 11 2 | JAN. . | 6 5 16 | 6 14 0 |
| | FEB. . | 8 2 51 | 7 20 42 | | FEB. . | 4 18 0 | 5 0 53 |
| | MAR. . | 8 15 35 | 8 11 44 | | MAR. . | 6 6 45 | 6 10 20 |
| | APRIL | 7 4 19 | 7 3 31 | | APRIL | 4 19 29 | 4 18 43 |
| | MAY . | 6 17 3 | 6 19 27 | | MAY . | 4 8 13 | 4 3 3 |
| | JUNE . | 5 5 47 | 5 10 49 | | JUNE . | 2 20 57 | 2 12 1 |
| | JULY . | 4 18 31 | 5 1 0 | | | 2 9 41 | 1 22 41 |
| | AUG. . | 3 7 15 | 3 13 44 | | JULY . | 31 22 25 | 31 11 44 |
| | SEPT. . | 1 19 59 | 2 1 13 | | AUG. . | 30 11 9 | 30 3 15 |
| | ○ | 1 8 43 | 1 11 58 | | ○ | 14 5 31 | 14 2 38 |
| | OCT. . | 30 21 27 | 30 22 31 | | SEPT. . | 28 23 53 | 28 20 41 |
| | NOV. . | 29 10 11 | 29 9 11 | | OCT. . | 28 12 37 | 28 14 57 |
| | DEC. . | 28 22 55 | 28 20 7 | | NOV. . | 27 1 21 | 27 8 46 |
| | | | | | DEC. . | 26 14 5 | 27 1 0 |
| 925. H. 15 23 25 | JAN. . | 27 11 39 | 27 7 20 | 928. F.E. 15 16 51 | JAN. . | 25 2 49 | 25 14 53 |
| | FEB. . | 26 0 23 | 25 19 1 | | FEB. . | 23 15 33 | 24 2 19 |
| | MAR. . | 27 13 7 | 27 7 27 | | MAR. . | 24 4 17 | 24 11 34 |
| | ○ | 11 7 20 | 11 19 31 | | APRIL | 22 17 1 | 22 19 19 |
| | APRIL | 26 1 51 | 25 20 55 | | MAY . | 22 5 45 | 22 2 25 |
| | MAY . | 25 14 35 | 25 11 27 | | JUNE . | 20 18 29 | 20 9 57 |
| | JUNE . | 24 8 19 | 24 2 45 | | JULY . | 20 7 13 | 19 19 1 |
| | JULY . | 23 16 3 | 23 18 10 | | ○ | 4 1 35 | 4 7 59 |
| | AUG. . | 22 4 47 | 22 9 5 | | AUG. . | 18 19 57 | 18 6 31 |
| | SEPT. . | 20 17 31 | 20 23 9 | | SEPT. . | 17 8 41 | 16 21 5 |
| | ○ | 5 11 53 | 4 22 11 | | OCT. . | 16 21 25 | 16 14 23 |
| | OCT. . | 20 6 15 | 20 12 14 | | NOV. . | 15 10 9 | 15 9 24 |
| | NOV. . | 18 18 59 | 19 0 26 | | DEC. . | 14 22 53 | 15 4 42 |
| | DEC. . | 18 7 43 | 18 11 53 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 929. D. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 932. A.G. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 22 40 | JAN. . | { 13 11 33 | 13 22 36 | March. <i>d. h. m.</i> 15 16 7 | JAN. . | 11 2 48 | 10 19 37 |
| | ○ | { 23 6 0 | 28 0 8 | | FEB. . | 9 15 32 | 9 12 19 |
| | FEB. . | 12 0 22 | 12 13 57 | | MAR. . | 10 4 16 | 10 5 38 |
| | MAR. . | 13 13 6 | 14 2 20 | | APRIL | 8 17 0 | 8 22 34 |
| | APRIL | 12 1 50 | 12 11 58 | | MAY . | { 8 5 41 | 8 14 9 |
| | MAY . | 11 14 34 | 11 19 39 | | ○ | { 23 0 6 | 22 18 25 |
| | JUNE . | 10 3 18 | 10 2 22 | | JUNE . | 6 18 28 | 7 3 47 |
| | JULY . | { 9 16 2 | 9 9 12 | | JULY . | 6 7 12 | 6 15 20 |
| | ○ | { 24 10 24 | 24 15 0 | | AUG. . | 4 19 56 | 5 1 19 |
| | AUG. . | 8 4 46 | 7 17 18 | | SEPT. . | 3 8 40 | 3 10 32 |
| | SEPT. . | 6 17 30 | 6 3 38 | | OCT. . | 2 21 24 | 2 19 48 |
| | OCT. . | 6 6 14 | 5 16 54 | | Nov. ○ | { 1 10 8 | 1 5 43 |
| | NOV. . | 4 18 58 | 4 9 13 | | | { 16 4 30 | 16 6 59 |
| | DEC. . | 4 7 42 | 4 3 50 | | | { 30 22 52 | 30 16 36 |
| 930. C. | JAN. . | { 2 20 27 | 2 23 26 | 933. F. | DEC. . | 30 11 36 | 30 4 36 |
| 16 4 29 | ○ | { 17 14 49 | 17 14 14 | | JAN. . | 29 0 21 | 28 17 45 |
| | FEB. . | 1 9 11 | 1 18 15 | 15 21 55 | FEB. . | 27 13 5 | 27 7 58 |
| | MAR. . | 2 21 55 | 3 10 49 | | MAR. . | 29 1 49 | 28 23 8 |
| | APRIL | { 1 10 39 | 2 0 25 | | APRIL | 27 14 33 | 27 14 51 |
| | | { 30 23 23 | { 1 11 2 | | ○ | { 12 8 55 | 12 11 10 |
| | MAY . | 30 12 7 | { 30 19 23 | | MAY . | { 27 3 17 | 27 6 30 |
| | JUNE . | 29 0 51 | 29 2 25 | | JUNE . | 25 16 1 | 25 21 23 |
| | ○ | { 13 19 13 | { 13 16 11 | | JULY . | 25 4 45 | 25 11 1 |
| | JULY . | { 23 13 35 | { 23 9 20 | | AUG. . | 23 17 29 | 23 23 21 |
| | AUG. . | 27 2 19 | 26 17 10 | | SEPT. . | 22 6 13 | 22 10 42 |
| | SEPT. . | 25 15 3 | 25 2 49 | | OCT. . | 21 18 57 | 21 21 32 |
| | OCT. . | 25 3 47 | 24 14 57 | | ○ | { 5 13 19 | 5 6 11 |
| | NOV. . | 23 16 31 | 23 5 49 | | Nov. . | { 20 7 41 | 20 8 17 |
| | DEC. . | 23 5 15 | 22 23 4 | | DEC. . | 19 20 25 | 19 19 6 |
| 931. B. | ○ | { 6 23 37 | 7 6 4 | 934. E. | JAN. . | 18 9 9 | 18 6 3 |
| 16 10 18 | JAN. . | { 21 17 59 | 21 17 41 | 16 3 44 | FEB. . | 16 21 53 | 16 17 15 |
| | FEB. . | 20 6 43 | 20 12 18 | | MAR. . | 18 10 37 | 18 4 58 |
| | MAR. . | 21 19 27 | 22 5 31 | | APRIL | 16 23 21 | 16 17 36 |
| | APRIL | 20 8 11 | 20 20 19 | | ○ | { 1 17 43 | 2 3 42 |
| | MAY . | 19 20 55 | 20 8 22 | | MAY . | { 16 12 5 | 16 7 23 |
| | JUNE . | 18 9 39 | 18 18 1 | | JUNE . | 15 0 49 | 14 22 17 |
| | JULY . | 17 22 23 | 18 2 12 | | JULY . | 14 13 33 | 14 13 46 |
| | AUG. . | 16 11 7 | 16 9 55 | | AUG. . | 13 2 17 | 13 5 11 |
| | SEPT. . | 14 23 51 | 14 18 9 | | SEPT. . | 11 15 1 | 11 19 59 |
| | OCT. . | 14 12 35 | 14 3 41 | | OCT. . | { 11 3 45 | 11 9 51 |
| | NOV. . | 13 1 19 | 12 15 1 | | ○ | { 25 22 7 | 25 9 20 |
| | DEC. . | 12 14 3 | 12 4 21 | | Nov. . | 9 16 29 | 9 22 45 |
| | | | | | DEC. . | 9 5 13 | 9 10 42 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 935. D. March. d. h. m. 16 9 33 | JAN. . | d. h. m. 7 17 58 | d. h. m. 7 21 47 | A.D. 938. G. March. d. h. m. 16 3 0 | JAN. . | d. h. m. 4 9 8 | d. h. m. 4 17 58 |
| | FEB. . | 6 6 42 | 6 8 3 | | FEB. . | { 2 21 52 | 3 10 41 |
| | MAR. . | 7 19 26 | 7 17 41 | | ○ | { 17 16 14 | 17 10 32 |
| | APRIL | 6 8 10 | 6 3 20 | | MAR. . | 4 10 36 | 5 0 29 |
| | MAY . | 5 20 54 | 5 13 32 | | APRIL | 2 23 20 | 3 11 20 |
| | JUNE . | 4 9 38 | 4 1 8 | | MAY . | 2 12 4 | 2 19 48 |
| | JULY . | 3 22 22 | 3 14 35 | | JUNE . | { 1 0 48 | 1 2 47 |
| | AUG. . | { 2 11 6 | 2 5 51 | | | { 30 13 32 | 30 9 26 |
| | SEPT. . | { 31 23 50 | 31 22 22 | | JULY . | 30 2 16 | 29 16 49 |
| | OCT. . | 30 12 34 | 30 15 17 | | AUG. . | 23 15 0 | 23 1 59 |
| | NOV. . | 30 1 18 | 30 7 42 | | SEPT. . | 27 3 44 | 26 13 49 |
| | DEC. . | 28 14 2 | 28 22 51 | | OCT. . | 26 16 28 | 26 4 42 |
| | | 28 2 46 | 28 12 20 | | NOV. . | 25 5 12 | 24 22 20 |
| | | | | | DEC. . | 24 17 56 | 24 17 37 |
| 936. C.B. 15 15 22 | JAN. . | 26 15 30 | 26 23 59 | 939. F. 16 8 48 | ○ | { 8 12 18 | 8 13 21 |
| | FEB. . | 25 4 14 | 25 9 58 | | JAN. . | { 23 6 40 | 23 12 56 |
| | ○ | { 10 22 36 | 11 3 14 | | FEB. . | 21 19 24 | 22 6 41 |
| | MAR. . | { 25 16 58 | 25 18 39 | | MAR. . | 23 8 8 | 23 21 44 |
| | APRIL | 24 5 42 | 24 2 41 | | APRIL | 21 20 52 | 22 9 45 |
| | MAY . | 23 18 26 | 23 10 59 | | MAY . | 21 9 36 | 21 19 4 |
| | JUNE . | 22 7 10 | 21 20 31 | | JUNE . | 19 22 20 | 20 2 39 |
| | JULY . | 21 19 54 | 21 8 19 | | ○ | { 4 16 42 | 4 11 41 |
| | AUG. . | 20 8 38 | 19 22 39 | | JULY . | { 19 11 4 | 19 9 36 |
| | ○ | { 4 3 0 | 4 2 23 | | AUG. . | 17 23 48 | 17 16 59 |
| | SEPT. . | { 18 21 22 | 18 15 23 | | SEPT. . | 16 12 32 | 16 1 46 |
| | OCT. . | 18 10 6 | 18 9 35 | | OCT. . | 16 1 16 | 15 12 41 |
| | NOV. . | 16 22 50 | 17 4 1 | | NOV. . | 14 14 0 | 14 2 13 |
| | DEC. . | 16 11 31 | 16 21 19 | | DEC. . | { 14 2 44 | 13 18 18 |
| | | | | | ○ | { 28 21 6 | 29 4 48 |
| 937. A. 15 21 11 | JAN. . | 15 0 19 | 15 12 29 | 940. E.D. 15 14 37 | JAN. . | 12 15 29 | 12 12 16 |
| | FEB. . | { 18 18 3 | 14 1 5 | | FEB. . | 11 4 13 | 11 6 53 |
| | ○ | { 23 7 25 | 23 3 53 | | MAR. . | 11 16 57 | 12 0 47 |
| | MAR. . | 15 1 47 | 15 11 14 | | APRIL | 10 5 41 | 10 16 47 |
| | APRIL | 13 14 31 | 13 19 30 | | MAY . | 9 18 25 | 10 6 10 |
| | MAY . | 13 3 15 | 13 2 39 | | JUNE . | { 8 7 9 | 8 17 1 |
| | JUNE . | 11 15 59 | 11 9 44 | | ○ | { 23 1 31 | 22 15 15 |
| | JULY . | 11 4 43 | 10 17 52 | | JULY . | 7 19 53 | 8 1 55 |
| | AUG. . | { 9 17 27 | 9 4 5 | | AUG. . | 6 8 37 | 6 9 53 |
| | ○ | { 24 11 49 | 24 17 0 | | SEPT. . | 4 21 21 | 4 17 57 |
| | SEPT. . | 8 6 11 | 7 17 10 | | OCT. . | 4 10 5 | 4 2 56 |
| | OCT. . | 7 18 53 | 7 9 13 | | NOV. . | 2 22 49 | 2 13 26 |
| | NOV. . | 6 7 39 | 6 3 39 | | | 2 11 33 | 2 1 46 |
| | DEC. . | 5 20 23 | 5 23 8 | | DEC. ○ | { 17 5 55 | 17 16 13 |
| | | | | | | ... | 31 16 0 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---------------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 941. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 944. G.F. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 20 26 | JAN. . | { 1 0 18 30 13 2 | ... 30 7 48 | 15 13 52 | JAN. . | 28 4 12 | 28 7 24 |
| | FEB. . | ... | ... | | FEB. . | 26 16 56 | 26 17 9 |
| | MAR. . | { 1 1 46 30 14 30 | 1 0 40 30 17 41 | | MAR. . | 27 5 40 | 27 2 27 |
| | APRIL | 29 3 14 | 29 9 55 | | O | { 11 0 2 25 18 24 | 11 12 46 25 12 0 |
| | MAY . | 28 15 58 | 29 0 34 | | APRIL | 25 7 8 | 21 22 35 |
| | O | { 12 10 20 27 4 42 | 12 2 5 27 13 15 | | JUNE . | 23 19 52 | 23 10 57 |
| | JUNE . | 26 17 26 | 27 0 7 | | JULY . | 23 8 36 | 23 1 20 |
| | AUG. . | 25 6 10 | 25 9 51 | | AUG. . | 21 21 20 | 21 17 26 |
| | SEPT. . | 23 18 54 | 23 19 16 | | SEPT. . | 20 10 4 | 20 10 81 |
| | OCT. . | 23 7 38 | 23 5 0 | | O | { 5 4 26 19 22 48 | 4 18 48 20 3 48 |
| | NOV. . | 21 20 22 | 21 15 29 | | OCT. . | 18 11 32 | 18 19 39 |
| | DEC. . | 21 9 6 | 21 2 54 | | NOV. . | 18 0 16 | 18 10 10 |
| | | | | | DEC. . | | |
| 942. B. | JAN. . | 19 21 50 | 19 15 17 | 945. E. | JAN. . | 16 13 0 | 16 22 45 |
| 16 2 15 | FEB. . | 18 10 34 | 18 4 42 | 15 19 41 | FEB. . | 15 1 44 | 15 9 26 |
| | MAR. . | 19 23 18 | 19 19 6 | | MAR. . | 16 14 28 | 16 18 81 |
| | APRIL | 18 12 2 | 18 10 21 | | APRIL | 15 3 12 | 15 2 35 |
| | MAY . | 18 0 46 | 18 1 59 | | MAY . | 14 15 56 | 14 10 26 |
| | JUNE . | 16 13 30 | 16 17 19 | | JUNE . | 13 4 40 | 12 19 6 |
| | JULY . | 16 2 14 | 16 7 44 | | JULY . | 12 17 24 | 12 5 37 |
| | AUG. . | 14 14 58 | 14 20 57 | | AUG. . | 11 6 8 | 10 18 39 |
| | SEPT. . | 13 3 42 | 13 9 1 | | SEPT. . | { 9 18 52 24 13 14 | 9 10 20 21 10 54 |
| | OCT. . | 12 16 26 | 12 20 20 | | O | | |
| | NOV. . | 11 5 10 | 11 7 18 | | OCT. . | 9 7 36 | 9 4 8 |
| | DEC. . | 10 17 54 | 10 18 9 | | NOV. . | 7 20 20 | 7 22 50 |
| | | | | | DEC. . | 7 9 4 | 7 17 0 |
| 943. A. | JAN. . | 9 6 30 | 9 5 0 | 946. D. | JAN. . | 5 21 49 | 6 9 25 |
| 16 8 4 | FEB. . | 7 19 23 | 7 15 52 | 16 1 30 | FEB. . | 4 10 38 | 4 23 13 |
| | MAR. . | 9 8 7 | 9 3 0 | | MAR. . | 5 23 17 | 6 10 32 |
| | APRIL | { 7 20 51 22 15 13 | 7 14 49 23 3 3 | | APRIL | 4 12 1 | 4 19 81 |
| | O | | | | MAY . | 4 0 45 | 4 2 57 |
| | MAY . | 7 9 35 | 7 3 46 | | JUNE . | 2 13 20 | 2 9 51 |
| | JUNE . | 5 22 19 | 5 17 59 | | JULY . | { 2 2 13 31 14 57 | 1 17 16 31 2 19 |
| | JULY . | 5 11 3 | 5 9 13 | | AUG. . | 30 3 41 | 29 13 57 |
| | AUG. . | 3 23 47 | 4 0 53 | | SEPT. . | 23 16 25 | 23 4 38 |
| | SEPT. . | 2 12 31 | 2 16 19 | | OCT. . | 23 5 9 | 27 22 6 |
| | O | { 2 1 15 16 19 37 | 2 7 0 16 6 19 | | NOV. . | 26 17 53 | 26 17 20 |
| | NOV. . | 30 2 43 | 30 9 14 | | DEC. . | 26 6 37 | 26 12 44 |
| | DEC. . | 29 15 27 | 29 20 48 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 947. C. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 950. F. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 16 7 19 | JAN. . | 24 19 21 | 25 6 40 | March. <i>d. h. m.</i> 16 0 45 | JAN. . | 21 10 31 | 21 3 48 |
| | ○ | { 8 13 43 | 8 8 31 | | FEB. . | 19 23 15 | 19 19 58 |
| | FEB. . | { 23 8 5 | 23 21 55 | | MAR. . | 21 11 59 | 21 12 45 |
| | MAR. . | 24 20 49 | 25 10 7 | | APRIL | 20 0 43 | 20 5 19 |
| | APRIL | 23 9 33 | 23 19 35 | | MAY . | 19 13 27 | 19 20 47 |
| | MAY . | 22 22 17 | 23 3 7 | | ○ | { 3 7 49 | 3 1 45 |
| | JUNE . | 21 11 1 | 21 9 47 | | JUNE . | { 18 2 11 | 18 10 31 |
| | JULY . | 20 23 45 | 20 16 42 | | JULY . | 17 14 55 | 17 22 24 |
| | ○ | { 4 18 7 | 4 21 50 | | AUG. . | 16 3 39 | 16 8 52 |
| | AUG. . | { 19 12 29 | 19 0 56 | | SEPT. . | 14 16 23 | 14 18 35 |
| | SEPT. . | 18 1 13 | 17 11 27 | | OCT. . | 14 5 7 | 14 4 18 |
| | OCT. . | 17 13 57 | 17 0 53 | | NOV. . | { 12 17 51 | 12 14 32 |
| | NOV. . | 16 2 41 | 15 17 15 | | ○ | { 27 12 13 | 27 14 56 |
| | DEC. . | 15 15 25 | 15 11 52 | | DEC. . | 12 6 35 | 12 1 31 |
| 948. B.A. | JAN. . | { 14 4 10 | 14 7 18 | 951. E. | JAN. . | 10 19 20 | 10 13 19 |
| | ○ | { 28 22 32 | 28 22 58 | 16 6 34 | FEB. . | 9 8 4 | 9 1 59 |
| 15 13 8 | FEB. . | 12 16 54 | 13 1 55 | | MAR. . | 10 20 48 | 10 15 35 |
| | MAR. . | 13 5 38 | 13 18 20 | | APRIL | 9 9 32 | 9 6 10 |
| | APRIL | 11 18 22 | 12 7 46 | | MAY . | { 8 22 16 | 8 21 23 |
| | MAY . | 11 7 6 | 11 18 20 | | ○ | { 23 16 38 | 23 18 40 |
| | JUNE . | 9 19 50 | 10 2 41 | | JUNE . | 7 11 0 | 7 12 57 |
| | JULY . | { 9 8 34 | 9 9 54 | | JULY . | 6 23 44 | 7 3 58 |
| | ○ | { 24 2 53 | 23 22 45 | | AUG. . | 5 12 28 | 5 18 1 |
| | AUG. . | 7 21 18 | 7 17 3 | | SEPT. . | 4 1 12 | 4 6 54 |
| | SEPT. . | 6 10 2 | 6 1 9 | | OCT. . | 3 13 56 | 3 18 50 |
| | OCT. . | 5 22 46 | 5 11 4 | | NOV. . | { 2 2 40 | 2 6 11 |
| | NOV. . | 4 11 30 | 3 23 20 | | ○ | { 16 21 2 | 16 14 6 |
| | DEC. . | 4 0 14 | 3 14 9 | | DEC. . | { 1 15 24 | 1 17 12 |
| | | | | | | { 31 4 8 | 31 4 3 |
| 949. G. | JAN. . | { 2 12 59 | 2 7 11 | 952. D.C. | JAN. . | 29 16 53 | 29 14 45 |
| | ○ | { 17 7 21 | 17 14 53 | 15 12 23 | FEB. . | 28 5 37 | 28 1 28 |
| 15 18 57 | FEB. . | 1. 1 43 | 1 1 26 | | MAR. . | 28 18 21 | 28 12 35 |
| | MAR. . | 2 14 27 | 2 19 40 | | APRIL | 27 7 5 | 27 0 39 |
| | APRIL | { 1 3 11 | 1 12 36 | | ○ | { 12 1 27 | 12 11 8 |
| | | { 30 15 55 | { 1 3 17 | | MAY . | { 26 19 49 | 26 14 2 |
| | MAY . | 30 4 39 | { 30 15 21 | | JUNE . | 25 8 33 | 25 4 45 |
| | JUNE . | 28 17 23 | 29 1 14 | | JULY . | 24 21 17 | 24 20 20 |
| | JULY . | 28 6 7 | 28 9 43 | | AUG. . | 23 10 1 | 23 12 11 |
| | AUG. . | 26 18 51 | 26 17 49 | | SEPT. . | 21 22 45 | 22 3 35 |
| | SEPT. . | 25 7 35 | 25 2 27 | | OCT. . | 21 11 29 | 21 13 3 |
| | OCT. . | 24 20 19 | 24 12 17 | | ○ | { 5 5 51 | 4 17 35 |
| | NOV. . | 23 9 3 | 22 23 44 | | NOV. . | { 20 0 13 | 20 7 25 |
| | DEC. . | 22 21 47 | 22 12 57 | | DEC. . | 19 12 57 | 19 19 33 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 953. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 956. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| B. | | | | F.E. | | | |
| March. | JAN. . | 18 1 41 | 18 6 38 | | JAN. . | 15 16 51 | 16 1 59 |
| <i>d. h. m.</i> | FEB. . | 16 14 25 | 16 16 36 | | FEB. . | { 14 5 35 | 14 18 37 |
| 15 18 12 | MAR. . | 18 3 9 | 18 1 50 | March. | ○ | { 23 23 57 | 23 18 35 |
| | APRIL . | 16 15 53 | 16 10 54 | <i>d. h. m.</i> | MAR. . | 14 18 19 | 15 8 17 |
| | MAY . | 16 4 37 | 15 20 39 | 15 11 38 | APRIL . | 13 7 3 | 13 18 57 |
| | JUNE . | 14 17 21 | 14 7 54 | | MAY . | 12 19 47 | 13 3 16 |
| | JULY . | 14 6 5 | 13 21 13 | | JUNE . | 11 8 31 | 11 10 12 |
| | AUG. . | 12 18 49 | 12 12 34 | | JULY . | 10 21 15 | 10 16 54 |
| | SEPT. . | 11 7 33 | 11 5 27 | | AUG. . | 9 9 59 | 9 0 25 |
| | OCT. . | 10 20 17 | 10 22 55 | | SEPT. . | 7 22 43 | 7 9 48 |
| | NOV. . | 9 9 1 | 9 15 50 | | OCT. . | 7 11 27 | 6 21 48 |
| | DEC. . | 8 21 45 | 9 7 23 | | NOV. . | 6 0 11 | 5 12 46 |
| | | | | | DEC. . | 5 12 55 | 5 6 23 |
| 954. | JAN. . | 7 10 30 | 7 21 2 | 957. | JAN. . | { 4 1 40 | 4 1 32 |
| A. | FEB. . | 5 23 14 | 6 8 36 | D. | ○ | { 18 20 2 | 18 22 13 |
| 16 0 1 | MAR. . | { 7 11 58 | 7 18 17 | | FEB. . | 2 14 24 | 2 20 39 |
| | ○ | { 22 6 20 | 22 10 21 | 15 17 27 | MAR. . | 4 3 8 | 4 14 12 |
| | APRIL . | 6 0 42 | 6 2 34 | | APRIL . | 2 15 52 | 3 5 5 |
| | MAY . | 5 13 26 | 5 10 14 | | MAY . | { 2 4 36 | 2 17 0 |
| | JUNE . | 4 2 10 | 3 18 13 | | ○ | { 31 17 20 | { 1 2 22 |
| | JULY . | 3 14 54 | 3 3 36 | | JUNE . | 30 6 4 | { 30 10 4 |
| | AUG. . | { 2 3 38 | 1 15 18 | | JULY . | 29 18 48 | 29 17 14 |
| | ○ | { 31 16 22 | 31 5 45 | | AUG. . | 28 7 32 | 28 0 54 |
| | SEPT. . | { 15 10 44 | 15 10 29 | | SEPT. . | 26 20 16 | 26 9 58 |
| | ○ | { 30 5 6 | 29 22 44 | | OCT. . | 26 9 0 | 25 21 6 |
| | OCT. . | 29 17 59 | 29 17 20 | | NOV. . | 24 21 44 | 24 10 40 |
| | NOV. . | 28 6 34 | 28 12 7 | | DEC. . | 24 10 28 | 24 2 31 |
| | DEC. . | 27 19 18 | 28 5 38 | | | | |
| 955. | JAN. . | 26 8 3 | 26 20 53 | 958. | ○ | { 8 4 51 | 8 13 39 |
| G. | FEB. . | 24 20 47 | 25 9 21 | C. | JAN. . | { 22 23 13 | 22 20 10 |
| 16 5 50 | ○ | { 11 15 9 | 11 11 22 | 15 23 16 | FEB. . | 21 11 57 | 21 14 22 |
| | MAR. . | { 26 9 31 | 26 19 14 | | MAR. . | 23 0 41 | 23 7 56 |
| | APRIL . | 24 22 15 | 25 3 13 | | APRIL . | 21 18 25 | 21 23 48 |
| | MAY . | 24 10 59 | 24 10 9 | | MAY . | 21 2 9 | 21 13 6 |
| | JUNE . | 22 23 43 | 22 17 7 | | JUNE . | 19 14 53 | 20 0 5 |
| | JULY . | 22 12 27 | 22 1 12 | | ○ | { 4 9 15 | 3 22 8 |
| | AUG. . | 21 1 11 | 20 11 28 | | JULY . | { 19 3 37 | 19 9 17 |
| | ○ | { 4 19 33 | 5 0 44 | | AUG. . | 17 16 21 | 17 17 38 |
| | SEPT. . | { 19 13 55 | 19 0 42 | | SEPT. . | 16 5 5 | 16 2 8 |
| | OCT. . | 19 2 39 | 18 16 57 | | OCT. . | 15 17 49 | 15 11 29 |
| | NOV. . | 17 15 23 | 17 11 34 | | NOV. . | 14 6 33 | 13 22 11 |
| | DEC. . | 17 4 7 | 17 7 8 | | DEC. . | { 18 19 17 | 18 10 29 |
| | | | | | ○ | { 23 18 30 | 23 0 42 |

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 959. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 962. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| ^{R.} March. <i>d. h. m.</i> 16 5 5 | JAN. . | 12 8 1 | 12 0 28 | ^{R.} March. <i>d. h. m.</i> 15 22 31 | JAN. . | 8 23 11 | 9 5 41 |
| | FEB. . | 10 20 45 | 10 15 42 | | FEB. . | 7 11 55 | 7 16 3 |
| | MAR. . | 12 9 29 | 12 8 0 | | MAR. . | 9 0 39 | 9 1 24 |
| | APRIL | 10 22 13 | 11 0 34 | | APRIL | { 7 13 23 | 7 10 13 |
| | MAY . | 10 10 57 | 10 16 33 | | ○ | { 22 7 45 | 22 19 51 |
| | JUNE . | { 8 23 41 | 9 7 12 | | MAY . | 7 2 7 | 6 19 17 |
| | ○ | { 23 18 3 | 23 9 21 | | JUNE . | 5 14 51 | 5 5 31 |
| | JULY . | 8 12 25 | 8 20 7 | | JULY . | 5 3 35 | 4 17 39 |
| | AUG. . | 7 1 9 | 7 7 27 | | AUG. . | 3 16 19 | 3 8 2 |
| | SEPT. . | 5 13 53 | 5 17 42 | | SEPT. . | 2 5 3 | 2 0 24 |
| | OCT. . | 5 2 37 | 5 3 36 | | | { 1 17 47 | 1 17 55 |
| | NOV. . | 3 15 21 | 3 13 44 | | OCT. ○ | { 16 12 9 | 16 3 15 |
| | DEC. . | 3 4 5 | 3 0 24 | | | { 31 6 31 | 31 11 29 |
| | | | | | NOV. . | 29 19 15 | 30 4 2 |
| | | | | | DEC. . | 29 7 59 | 29 18 46 |
| 960. | JAN. . | { 1 16 50 | 1 11 44 | 963. | JAN. . | 27 20 44 | 28 7 22 |
| ^{A.G.} | | { 31 5 34 | 30 23 46 | ^{D.} | FEB. . | 26 9 28 | 26 17 49 |
| 15 10 54 | FEB. . | 29 18 18 | 29 12 36 | 16 4 20 | MAR. . | 27 22 12 | 28 2 34 |
| | MAR. . | 30 7 2 | 30 2 23 | | ○ | { 11 16 34 | 11 22 10 |
| | APRIL | 28 19 46 | 28 17 7 | | APRIL | { 26 10 56 | 26 10 15 |
| | MAY . | 28 8 30 | 28 8 27 | | MAY . | 25 23 40 | 25 17 43 |
| | JUNE . | 26 21 14 | 26 23 47 | | JUNE . | 24 12 24 | 24 2 15 |
| | JULY . | 26 9 58 | 26 14 32 | | JULY . | 24 1 8 | 23 12 39 |
| | AUG. . | 24 22 42 | 25 4 16 | | AUG. . | 22 13 52 | 22 1 44 |
| | SEPT. . | 23 11 26 | 23 16 57 | | SEPT. . | 21 2 36 | 20 17 38 |
| | OCT. . | 23 0 10 | 23 4 48 | | ○ | { 5 20 58 | 5 19 19 |
| | NOV. . | 21 12 54 | 21 16 9 | | OCT. . | { 20 15 20 | 20 11 43 |
| | DEC. . | 21 1 38 | 21 3 8 | | NOV. . | 19 4 4 | 19 6 46 |
| | | | | | DEC. . | 18 16 48 | 19 1 12 |
| 961. | JAN. . | 19 14 23 | 19 13 50 | 964. | JAN. . | 17 5 32 | 17 17 44 |
| ^{F.} | FEB. . | 18 3 7 | 18 0 17 | ^{C.B.} | FEB. . | 15 18 16 | 16 7 33 |
| 15 16 43 | MAR. . | 19 15 51 | 19 10 51 | 15 10 9 | MAR. . | 16 7 0 | 16 18 35 |
| | APRIL | 18 4 35 | 17 22 7 | | APRIL | 14 19 44 | 15 3 17 |
| | ○ | { 2 22 57 | 3 10 28 | | MAY . | 14 8 23 | 14 10 31 |
| | MAY . | { 17 17 19 | 17 10 34 | | JUNE . | 12 21 12 | 12 17 15 |
| | JUNE . | 16 6 3 | 16 0 30 | | JULY . | 12 9 56 | 12 0 37 |
| | JULY . | 15 18 47 | 15 15 43 | | AUG. . | 10 22 40 | 10 9 43 |
| | AUG. . | 14 7 31 | 14 7 41 | | SEPT. . | 9 11 24 | 8 21 27 |
| | SEPT. . | 12 20 15 | 12 23 40 | | OCT. . | 9 0 8 | 8 12 18 |
| | OCT. . | { 12 8 59 | 12 14 57 | | NOV. . | 7 12 52 | 7 5 57 |
| | ○ | { 27 3 21 | 26 14 36 | | DEC. . | 7 1 36 | 7 1 17 |
| | NOV. . | 10 21 43 | 11 5 9 | | | | |
| | DEC. . | 10 10 27 | 10 18 4 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|----------|------------------------------------|------------------------------------|
| A.D. 965. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 968. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | JAN. . | 5 14 21 | 5 20 44 | E.D. | JAN. . | 3 5 31 | 2 21 32 |
| March. | FEB. . | { 4 3 5 | 4 14 36 | March. | FEB. . | 1 18 15 | 1 11 57 |
| <i>d. h. m.</i> | ○ | { 18 21 27 | 18 16 49 | <i>d. h. m.</i> | { 2 6 59 | 2 3 32 | |
| 15 15 58 | MAR. . | 5 15 49 | 6 5 45 | 15 9 24 | MAR. . | { 31 19 43 | 31 19 43 |
| | APRIL | 4 4 33 | 4 17 47 | | APRIL | 30 8 27 | 30 12 0 |
| | MAY . | 3 17 17 | 4 3 7 | | MAY . | 29 21 11 | 30 3 20 |
| | JUNE . | 2 6 1 | 2 10 34 | | ○ | { 13 15 33 | 13 9 6 |
| | JULY . | { 1 18 45 | 1 17 16 | | JUNE . | { 28 9 55 | 28 17 14 |
| | ○ | { 31 7 29 | 31 0 19 | | JULY . | 27 22 39 | 28 5 31 |
| | AUG. . | { 15 1 51 | 15 4 46 | | AUG. . | 26 11 23 | 26 16 30 |
| | SEPT. . | { 29 20 13 | 29 8 44 | | SEPT. . | 25 0 7 | 25 2 46 |
| | OCT. . | 28 8 57 | 27 19 27 | | OCT. . | 24 12 51 | 24 12 57 |
| | NOV. . | 27 21 41 | 27 9 1 | | NOV. . | 23 1 35 | 22 23 28 |
| | DEC. . | 26 10 25 | 26 1 23 | | ○ | { 7 19 57 | 7 22 56 |
| | | 25 23 9 | 25 19 51 | | DEC. . | { 22 14 19 | 22 10 27 |
| 966. | JAN. . | 24 11 54 | 24 15 6 | 969. | JAN. . | 21 3 4 | 20 21 59 |
| G. | ○ | { 8 6 16 | 8 7 37 | C. | FEB. . | 19 15 48 | 19 10 8 |
| 15 21 47 | FEB. . | { 23 0 33 | 23 9 29 | 15 15 13 | MAR. . | 21 4 32 | 20 23 7 |
| | MAR. . | 24 13 22 | 25 1 41 | | APRIL | 19 17 16 | 19 13 7 |
| | APRIL | 23 2 6 | 23 15 1 | | MAY . | 19 6 0 | 19 4 1 |
| | MAY . | 22 14 50 | 23 1 33 | | ○ | { 3 0 22 | 3 2 8 |
| | JUNE . | 21 3 34 | 21 10 1 | | JUNE . | { 17 18 44 | 17 19 23 |
| | JULY . | 20 16 18 | 20 17 26 | | JULY . | 17 7 28 | 17 10 35 |
| | ○ | { 4 10 40 | 4 5 25 | | AUG. . | 15 20 12 | 16 1 5 |
| | AUG. . | { 19 5 2 | 19 0 51 | | SEPT. . | 14 8 56 | 14 14 31 |
| | SEPT. . | 17 17 46 | 17 9 18 | | OCT. . | 13 21 40 | 14 3 7 |
| | OCT. . | 17 6 30 | 16 19 28 | | NOV. . | { 12 10 24 | 12 14 55 |
| | NOV. . | 15 19 14 | 15 7 51 | | ○ | { 27 4 46 | 26 22 6 |
| | DEC. . | 15 7 58 | 14 22 33 | | DEC. . | 11 23 8 | 12 2 10 |
| 967. | JAN. . | { 13 20 42 | 13 15 14 | 970. | JAN. . | 10 11 52 | 10 12 57 |
| F. | ○ | { 28 15 4 | 28 23 34 | B. | FEB. . | 9 0 36 | 8 28 20 |
| 16 3 36 | FEB. . | 12 9 26 | 12 9 3 | 15 21 2 | MAR. . | 10 13 20 | 10 9 33 |
| | MAR. . | 13 22 10 | 14 2 54 | | APRIL | 9 2 4 | 8 20 6 |
| | APRIL | 12 10 54 | 12 19 32 | | MAY . | { 8 14 43 | 8 7 38 |
| | MAY . | 11 23 38 | 12 10 7 | | ○ | { 23 9 10 | 23 18 28 |
| | JUNE . | 10 12 22 | 10 22 19 | | JUNE . | 7 3 32 | 6 20 38 |
| | JULY . | 10 1 6 | 10 8 28 | | JULY . | 6 16 16 | 6 11 13 |
| | AUG. . | 8 13 50 | 8 17 18 | | AUG. . | 5 5 0 | 5 3 0 |
| | SEPT. . | 7 2 34 | 7 1 49 | | SEPT. . | 3 17 44 | 3 19 17 |
| | OCT. . | 6 15 18 | 6 10 52 | | OCT. . | 3 6 28 | 3 11 15 |
| | NOV. . | 5 4 2 | 4 21 1 | | NOV. . | { 1 19 12 | 2 2 20 |
| | DEC. . | 4 16 46 | 4 8 31 | | ○ | { 16 13 34 | 16 1 53 |
| | | | | | DEC. . | { 1 7 56 | 1 16 6 |
| | | | | | | { 30 20 40 | 31 4 28 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 971. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 974. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| A. | | | | D. | | | |
| March. | JAN. . | 29 9 25 | 29 15 22 | March. | JAN. . | 26 0 35 | 26 9 54 |
| <i>d. h. m.</i> | FEB. . | 27 22 9 | 28 1 1 | <i>d. h. m.</i> | FEB. . | 24 18 19 | 25 2 26 |
| 16 2 51 | MAR. . | 29 10 53 | 29 9 49 | 15 20 17 | () | { 11 7 41 | 11 2 32 |
| | APRIL. | 27 23 37 | 27 18 25 | | MAR. . | { 26 2 3 | 26 15 57 |
| | MAY . | 27 12 21 | 27 3 45 | | APRIL. | 24 14 47 | 25 2 29 |
| | JUNE . | 26 1 5 | 25 14 43 | | MAY . | 24 8 31 | 24 10 43 |
| | JULY . | 25 18 49 | 25 3 57 | | JUNE . | 22 16 15 | 22 17 40 |
| | AUG. . | 24 2 38 | 23 19 29 | | JULY . | 22 4 59 | 22 0 27 |
| | SEPT. . | 22 15 17 | 22 12 43 | | AUG. . | 20 17 43 | 20 8 11 |
| | OCT. . | 22 4 1 | 22 6 38 | | SEPT. . | 19 6 27 | 18 17 47 |
| | NOV. . | 20 13 45 | 21 0 3 | | OCT. . | 18 19 11 | 18 5 57 |
| | DEC. . | 20 5 29 | 20 15 55 | | NOV. . | 17 7 55 | 16 20 59 |
| | | | | | DEC. . | 16 20 39 | 16 14 29 |
| 972. | JAN. . | 18 18 14 | 19 5 40 | 975. | JAN. . | 15 9 23 | 15 9 24 |
| O.F. | FEB. . | 17 6 58 | 17 17 4 | C. | FEB. . | 18 22 7 | 14 4 16 |
| 15 8 40 | MAR. . | 17 19 42 | 18 2 27 | 16 2 6 | MAR. . | 15 10 51 | 15 21 33 |
| | () | { 1 14 4 | 1 17 19 | | APRIL. | 18 23 35 | 14 12 17 |
| | APRIL. | { 16 8 23 | 16 10 23 | | MAY . | 18 12 19 | 14 0 10 |
| | MAY . | 15 21 10 | 15 17 43 | | JUNE . | 12 1 8 | 12 9 36 |
| | JUNE . | 14 9 54 | 14 1 28 | | JULY . | 11 13 47 | 11 17 30 |
| | JULY . | 13 22 38 | 13 10 43 | | AUG. . | 10 2 31 | 10 0 56 |
| | AUG. . | 12 11 22 | 11 22 25 | | SEPT. . | 8 15 15 | 8 8 56 |
| | SEPT. . | { 11 0 6 | 10 18 0 | | OCT. . | 8 8 59 | 7 18 19 |
| | () | { 25 18 28 | 25 18 46 | | NOV. . | 6 16 43 | 6 5 39 |
| | OCT. . | 10 12 50 | 10 6 15 | | DEC. . | 6 5 27 | 5 19 10 |
| | NOV. . | 9 1 34 | 9 1 8 | | | | |
| | DEC. . | 8 14 18 | 8 20 11 | | | | |
| 973. | JAN. . | 7 3 2 | 7 13 54 | 976. | JAN. . | { 4 18 12 | 4 10 50 |
| R. | FEB. . | 5 15 43 | 6 5 6 | N.A. | () | { 19 12 34 | 19 22 21 |
| 15 14 29 | MAR. . | { 7 4 30 | 7 17 25 | 15 7 55 | FEB. . | 3 6 56 | 3 8 59 |
| | () | { 21 22 52 | 21 18 43 | | MAR. . | 3 19 40 | 3 21 44 |
| | APRIL. | 5 17 14 | 6 3 6 | | APRIL. | 2 8 24 | 2 14 55 |
| | MAY . | 5 5 54 | 5 10 50 | | MAY . | { 1 21 8 | 2 6 30 |
| | JUNE . | 3 18 42 | 3 17 36 | | () | { 31 9 52 | 31 19 55 |
| | JULY . | 3 7 23 | 3 0 30 | | JUNE . | 29 22 33 | 30 7 8 |
| | AUG. . | { 1 20 10 | 1 8 37 | | () | { 14 16 53 | 14 5 5 |
| | () | { 31 8 54 | 30 19 1 | | JULY . | { 29 11 20 | 29 16 42 |
| | SEPT. . | { 29 21 33 | 29 8 22 | | AUG. . | 28 0 4 | 28 1 30 |
| | OCT. . | 29 10 22 | 29 0 45 | | SEPT. . | 26 12 43 | 26 10 25 |
| | NOV. . | 27 23 6 | 27 19 23 | | OCT. . | 26 1 32 | 25 20 8 |
| | DEC. . | 27 11 50 | 27 15 4 | | NOV. . | 24 14 13 | 24 7 0 |
| | | | | | DEC. . | 24 8 0 | 23 19 12 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|-----------------------------------|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 977. G. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 980. D.C. March. <i>d. h. m.</i> | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | ○ | { 7 21 22 | 8 9 7 | | JAN. . | 20 6 55 | 20 14 29 |
| | JAN. . | { 22 15 45 | 22 8 45 | | FEB. . | 18 19 39 | 19 0 36 |
| March. <i>d. h. m.</i> | FEB. . | 21 4 29 | 20 23 31 | 15 7 10 | MAR. . | 19 8 23 | 19 9 32 |
| 15 13 44 | MAR. . | 22 17 13 | 22 15 13 | | APRIL | 17 21 7 | 17 17 54 |
| | APRIL | 21 5 57 | 21 7 19 | | ○ | { 2 15 29 | 3 2 47 |
| | MAY . | 20 13 41 | 20 23 4 | | MAY . | { 17 9 51 | 17 2 34 |
| | JUNE . | 19 7 25 | 19 13 48 | | JUNE . | 15 22 35 | 15 12 28 |
| | ○ | { 4 1 47 | 3 16 33 | | JULY . | 15 11 19 | 15 0 27 |
| | JULY . | { 18 20 9 | 19 3 3 | | AUG. . | 14 0 3 | 13 14 54 |
| | AUG. . | 17 8 53 | 17 14 52 | | SEPT. . | 12 12 47 | 12 7 31 |
| | SEPT. . | 15 21 37 | 16 1 41 | | OCT. . | { 12 1 31 | 12 1 27 |
| | OCT. . | 15 10 21 | 15 12 6 | | ○ | { 26 19 53 | 26 11 52 |
| | NOV. . | 13 23 5 | 13 22 35 | | NOV. . | 10 14 15 | 10 19 29 |
| | DEC. . | 13 11 49 | 13 9 23 | | DEC. . | 10 2 59 | 10 12 26 |
| 978. F. | JAN. . | 12 0 33 | 11 20 32 | 981. B. | JAN. . | 8 15 43 | 9 3 21 |
| 15 19 33 | FEB. . | 10 13 17 | 10 8 8 | 15 12 59 | FEB. . | 7 4 27 | 7 15 52 |
| | MAR. . | 12 2 1 | 11 20 22 | | MAR. . | 8 17 11 | 9 2 5 |
| | APRIL | 10 14 45 | 10 9 32 | | APRIL | { 7 5 55 | 7 10 29 |
| | MAY . | 10 3 29 | 9 23 47 | | ○ | { 22 0 17 | 22 4 54 |
| | JUNE . | 8 16 13 | 8 14 53 | | MAY . | 6 18 39 | 6 17 51 |
| | JULY . | 8 4 57 | 8 6 17 | | JUNE . | 5 7 23 | 5 1 7 |
| | AUG. . | 6 17 41 | 6 21 24 | | JULY . | 4 20 7 | 4 9 25 |
| | SEPT. . | 5 6 25 | 5 11 40 | | AUG. . | 3 8 51 | 2 19 43 |
| | OCT. . | 4 19 9 | 5 0 53 | | SEPT. . | 1 21 35 | 1 8 53 |
| | NOV. . | 3 7 53 | 3 13 23 | | | { 1 10 19 | 1 1 4 |
| | DEC. . | 2 20 37 | 3 1 3 | | OCT. ○ | { 16 4 41 | 16 3 52 |
| | | | | | | { 30 23 3 | 30 19 25 |
| 979. E. | JAN. . | { 1 9 22 | 1 12 7 | | NOV. . | 29 11 47 | 29 14 44 |
| 16 1 22 | FEB. . | { 30 22 6 | 30 22 33 | | DEC. . | 29 0 31 | 29 9 23 |
| | ... | ... | ... | | | | |
| | MAR. . | { 1 10 50 | 1 8 34 | | | | |
| | APRIL | { 30 23 34 | 30 18 36 | 982. A. | JAN. . | 27 13 16 | 28 1 57 |
| | ○ | { 14 6 40 | 14 17 45 | 15 18 48 | FEB. . | 26 2 0 | 26 15 42 |
| | MAY . | { 29 1 2 | 28 17 18 | | MAR. . | 27 14 44 | 28 2 30 |
| | JUNE . | 27 13 46 | 27 7 1 | | APRIL | 26 3 23 | 26 10 53 |
| | JULY . | 27 2 30 | 26 22 20 | | MAY . | 25 16 12 | 25 13 1 |
| | AUG. . | 25 15 14 | 25 14 37 | | JUNE . | 24 4 56 | 24 0 41 |
| | SEPT. . | 24 3 53 | 24 7 5 | | JULY . | 23 17 40 | 23 8 4 |
| | OCT. . | 23 16 42 | 23 22 53 | | AUG. . | 22 6 24 | 21 17 16 |
| | ○ | { 7 11 4 | 6 23 0 | | SEPT. . | 20 19 8 | 20 5 10 |
| | NOV. . | { 22 5 26 | 22 13 40 | | OCT. . | 20 7 52 | 19 20 9 |
| | DEC. . | 21 18 10 | 22 2 52 | | NOV. . | 18 20 36 | 18 13 53 |
| | | | | | DEC. . | 18 9 20 | 18 9 15 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 983. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 986. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| U. | JAN. . | 16 22 5 | 17 4 40 | C. | JAN. . | 13 13 15 | 13 6 5 |
| March. | FEB. . | 15 10 49 | 15 22 24 | March. | FEB. . | 12 1 59 | 11 20 0 |
| <i>d. h. m.</i> | ○ | { 2 5 11 | 2 1 0 | <i>d. h. m.</i> | MAR. . | 13 14 43 | 13 10 59 |
| 15 0 37 | MAR. . | { 16 23 33 | 17 13 23 | 15 18 3 | APRIL | 12 3 27 | 12 2 41 |
| | APRIL | 15 12 17 | 16 1 17 | | MAY . | 11 16 11 | 11 18 33 |
| | MAY . | 15 1 1 | 15 10 32 | | JUNE . | { 10 4 55 | 10 9 52 |
| | JUNE . | 13 13 45 | 13 17 59 | | ○ | { 24 23 17 | 24 16 28 |
| | JULY . | 13 2 29 | 13 0 46 | | JULY . | 9 17 39 | 10 0 0 |
| | AUG. . | { 11 15 13 | 11 8 1 | | AUG. . | 8 6 23 | 8 12 44 |
| | ○ | { 26 9 35 | 26 11 47 | | SEPT. . | 6 19 7 | 7 0 16 |
| | SEPT. . | 10 3 57 | 9 16 41 | | OCT. . | 6 7 51 | 6 11 5 |
| | OCT. . | 9 16 41 | 9 3 37 | | NOV. . | 4 20 35 | 4 21 42 |
| | NOV. . | 8 5 25 | 7 17 16 | | DEC. . | { 4 9 19 | 4 8 26 |
| | DEC. . | 7 18 9 | 7 9 35 | | ○ | { 19 3 41 | 19 6 57 |
| 984. | JAN. . | 6 6 53 | 6 8 51 | 987. | JAN. . | 2 22 3 | 2 19 21 |
| F.E. | FEB. . | { 4 19 37 | 4 22 46 | B. | FEB. . | 1 10 47 | 1 6 32 |
| | ○ | { 19 13 59 | 19 16 8 | 15 23 52 | MAR. . | 2 23 31 | 2 13 9 |
| 15 0 23 | MAR. . | 5 8 21 | 5 16 52 | | APRIL | 1 12 15 | { 1 6 31 |
| | APRIL | 3 21 5 | 4 8 50 | | MAY . | { 30 13 43 | 30 19 58 |
| | MAY . | 3 9 49 | 3 22 6 | | ○ | { 1 0 59 | 30 10 80 |
| | JUNE . | 1 22 33 | 2 8 43 | | JUNE . | { 14 8 5 | 14 9 33 |
| | JULY . | { 1 11 17 | 1 17 20 | | JULY . | { 29 2 27 | 29 1 49 |
| | ○ | { 81 0 1 | 81 1 1 | | AUG. . | 28 15 11 | 28 17 16 |
| | AUG. . | { 14 18 28 | 14 12 11 | | SEPT. . | 27 3 55 | 27 8 15 |
| | SEPT. . | { 29 12 45 | 29 8 48 | | OCT. . | 25 16 39 | 25 22 21 |
| | OCT. . | 28 1 29 | 27 17 35 | | NOV. . | 25 5 23 | 25 11 23 |
| | NOV. . | 27 14 13 | 27 4 0 | | ○ | 23 13 7 | 23 23 42 |
| | DEC. . | 26 2 57 | 25 16 26 | | DEC. . | { 8 12 29 | 8 6 11 |
| | | 25 15 41 | 25 6 58 | | | { 28 6 51 | 28 11 6 |
| 985. | JAN. . | 24 4 26 | 23 23 16 | 988. | JAN. . | 21 19 36 | 21 21 43 |
| D. | ○ | { 7 22 48 | 8 8 9 | A.G. | FEB. . | 20 8 20 | 20 7 43 |
| 15 12 13 | FEB. . | { 22 17 10 | 22 16 35 | 15 5 41 | MAR. . | 20 21 4 | 20 17 31 |
| | MAR. . | 24 5 54 | 24 9 59 | | APRIL | 19 9 43 | 19 8 32 |
| | APRIL | 22 13 33 | 23 2 20 | | MAY . | 18 22 32 | 18 14 34 |
| | MAY . | 22 7 22 | 22 16 52 | | ○ | { 2 16 54 | 3 1 45 |
| | JUNE . | 20 20 8 | 21 5 15 | | JUNE . | { 17 11 16 | 17 3 16 |
| | JULY . | 20 8 50 | 20 15 42 | | JULY . | 17 0 0 | 16 17 43 |
| | ○ | { 4 3 12 | 3 14 49 | | AUG. . | 15 12 44 | 15 9 43 |
| | AUG. . | { 18 21 31 | 19 1 0 | | SEPT. . | 14 1 23 | 14 2 30 |
| | SEPT. . | 17 10 13 | 17 10 0 | | OCT. . | 13 14 12 | 13 19 4 |
| | OCT. . | 16 23 2 | 16 19 27 | | NOV. . | { 12 2 56 | 12 10 40 |
| | NOV. . | 15 11 46 | 15 5 50 | | ○ | { 23 21 13 | 23 10 22 |
| | DEC. . | 15 0 30 | 14 17 20 | | DEC. . | 11 15 40 | 12 0 49 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|--|---------|------------------------------------|------------------------------------|---|---------|------------------------------------|------------------------------------|
| A.D. 989. F. March. d. h. m. 15 11 29 | | d. h. m. | d. h. m. | A.D. 992. C.B. March. d. h. m. 15 4 56 | | d. h. m. | d. h. m. |
| | JAN. . | 10 4 24 | 10 13 16 | | JAN. . | 7 19 34 | 7 23 1 |
| | FEB. . | 8 17 8 | 9 0 0 | | FEB. . | 6 8 18 | 6 17 42 |
| | MAR. . | 10 5 52 | 10 9 18 | | MAR. . | 6 21 2 | 7 10 3 |
| | APRIL | 8 18 36 | 8 17 39 | | ○ | 21 15 24 | 21 10 22 |
| | MAY . | 8 7 20 | 8 1 50 | | APRIL | 5 9 46 | 5 23 26 |
| | JUNE . | 6 20 4 | 6 10 49 | | MAY . | 4 22 30 | 5 9 51 |
| | JULY . | 6 8 48 | 5 21 36 | | JUNE . | 3 11 14 | 3 18 4 |
| | AUG. . | 4 21 32 | 4 10 47 | | JULY . | 2 23 58 | 3 1 7 |
| | SEPT. . | 3 10 16 | 3 2 29 | | AUG. . | 1 12 42 | 1 8 6 |
| | OCT. . | 2 23 0 | 2 20 5 | | ○ | 31 1 26 | 30 16 4 |
| | NOV. . | 1 11 44 | 1 14 27 | | SEPT. . | 14 19 48 | 14 23 16 |
| | DEC. . | 1 0 28 | 1 8 17 | | ○ | 29 14 10 | 29 1 55 |
| | | 30 13 12 | 31 0 23 | | OCT. . | 29 2 54 | 28 14 14 |
| 990. E. 15 17 18 | JAN. . | 29 1 57 | 29 14 9 | 993. A. 15 10 45 | JAN. . | 25 17 7 | 25 17 14 |
| | FEB. . | 27 14 41 | 28 1 22 | | FEB. . | 24 5 51 | 24 11 43 |
| | MAR. . | 29 3 25 | 29 10 28 | | MAR. . | 25 18 35 | 26 4 46 |
| | ○ | 12 21 47 | 13 0 9 | | APRIL | 24 7 19 | 24 19 21 |
| | APRIL | 27 16 9 | 27 18 4 | | MAY . | 23 20 3 | 24 7 14 |
| | MAY . | 27 4 53 | 27 1 9 | | JUNE . | 22 8 47 | 22 16 49 |
| | JUNE . | 25 17 37 | 25 8 42 | | JULY . | 21 21 31 | 22 0 59 |
| | JULY . | 25 6 21 | 24 17 54 | | AUG. . | 20 10 15 | 20 8 46 |
| | AUG. . | 23 19 5 | 23 5 39 | | SEPT. . | 18 22 59 | 18 17 8 |
| | SEPT. . | 22 7 49 | 21 20 23 | | OCT. . | 18 11 43 | 18 2 50 |
| | ○ | 7 2 11 | 7 3 9 | | NOV. . | 17 0 27 | 16 14 18 |
| | OCT. . | 21 20 33 | 21 13 52 | | DEC. . | 16 13 11 | 16 3 45 |
| | NOV. . | 20 9 17 | 20 9 0 | | | | |
| | DEC. . | 19 22 1 | 20 4 17 | | | | |
| 991. D. 15 23 7 | JAN. . | 18 10 46 | 18 22 4 | 994. G. 15 16 34 | JAN. . | 15 1 56 | 14 19 8 |
| | FEB. . | 16 23 30 | 17 13 13 | | ○ | 29 20 18 | 30 6 59 |
| | MAR. . | 18 12 14 | 19 1 21 | | FEB. . | 13 14 40 | 13 11 44 |
| | ○ | 2 6 36 | 2 1 58 | | MAR. . | 15 3 24 | 15 4 57 |
| | APRIL | 17 0 58 | 17 10 49 | | APRIL | 13 16 8 | 13 21 45 |
| | MAY . | 16 13 42 | 16 18 22 | | MAY . | 13 4 52 | 13 13 12 |
| | JUNE . | 15 2 26 | 15 1 2 | | JUNE . | 11 17 36 | 12 2 42 |
| | JULY . | 14 15 10 | 14 7 56 | | JULY . | 11 6 20 | 11 14 13 |
| | AUG. . | 13 3 54 | 12 16 10 | | ○ | 26 0 42 | 25 12 8 |
| | SEPT. . | 11 16 33 | 11 2 43 | | AUG. . | 9 19 4 | 10 0 13 |
| | ○ | 26 11 0 | 26 16 31 | | SEPT. . | 8 7 48 | 8 9 30 |
| | OCT. . | 11 5 22 | 10 16 13 | | OCT. . | 7 20 32 | 7 18 52 |
| | NOV. . | 9 13 6 | 9 8 43 | | NOV. . | 6 9 16 | 6 4 55 |
| | DEC. . | 9 6 50 | 9 3 28 | | DEC. . | 5 22 0 | 5 15 54 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|----------------------------|----------------|------------------------------------|------------------------------------|----------------------------|----------------|------------------------------------|------------------------------------|
| A.D. 995. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 998. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| F. | JAN. . | { 4 10 44 | 4 3 55 | B. | JAN. . | { 1 1 54 | 1 11 38 |
| March. | ○ | { 19 5 6 | 19 17 25 | March. | FEB. . | { 30 14 38 | 30 23 10 |
| <i>d. h. m.</i> | FEB. . | 2 23 28 | 2 17 2 | <i>d. h. m.</i> | ... | ... | ... |
| 15 22 22 | MAR. . | 4 12 12 | 4 7 12 | 15 15 49 | MAR. . | { 1 3 22 | 1 9 0 |
| | APRIL | 3 0 56 | 2 22 18 | | APRIL | { 30 16 6 | 30 17 32 |
| | MAY . | 2 13 40 | 2 13 57 | | ○ | 29 4 50 | 29 1 29 |
| | JUNE . | { 1 2 24 | 1 5 34 | | MAY . | { 13 23 12 | 14 9 37 |
| | ○ | { 30 15 8 | 30 20 24 | | JUNE . | { 28 17 34 | 28 9 46 |
| | JULY . | { 15 9 30 | 15 0 1 | | JULY . | 27 6 18 | 26 19 25 |
| | AUG. . | { 30 3 52 | 30 10 0 | | AUG. . | 26 19 2 | 26 7 19 |
| | SEPT. . | 28 16 36 | 28 22 22 | | SEPT. . | 25 7 46 | 24 21 51 |
| | OCT. . | 27 5 20 | 27 9 46 | | OCT. . | 23 20 30 | 23 14 45 |
| | NOV. . | 26 18 4 | 26 20 42 | | ○ | 23 9 14 | 23 9 5 |
| | DEC. . | 25 6 48 | 25 7 29 | | NOV. . | { 7 3 36 | 6 20 36 |
| | | 24 19 32 | 24 18 20 | | DEC. . | { 21 21 58 | 22 3 34 |
| | | | | | | 21 10 42 | 21 20 47 |
| 996. | JAN. . | 23 8 17 | 23 5 17 | 999. | JAN. . | 19 23 27 | 20 11 50 |
| E.D. | FEB. . | 21 21 1 | 21 16 23 | A. | FEB. . | 18 12 11 | 19 0 14 |
| 15 4 11 | MAR. . | 22 9 45 | 22 4 2 | 15 21 38 | MAR. . | 20 0 55 | 20 10 12 |
| | APRIL | 20 22 29 | 20 16 39 | | APRIL | 18 13 39 | 18 18 18 |
| | MAY . | 20 11 13 | 20 6 26 | | ○ | { 3 8 1 | 3 11 34 |
| | JUNE . | 18 23 57 | 18 21 19 | | MAY . | { 18 2 23 | 18 1 21 |
| | JULY . | 18 12 41 | 18 12 51 | | JUNE . | 16 15 7 | 16 8 28 |
| | AUG. . | 17 1 25 | 17 4 20 | | JULY . | 16 3 51 | 15 16 41 |
| | SEPT. . | 15 14 9 | 15 19 11 | | AUG. . | 14 16 35 | 14 3 4 |
| | OCT. . | 15 2 53 | 15 9 7 | | SEPT. . | 13 5 19 | 12 16 22 |
| | NOV. . | 13 15 37 | 13 22 2 | | OCT. . | { 12 18 3 | 12 8 39 |
| | DEC. . | 13 4 21 | 13 9 58 | | ○ | { 27 12 25 | 27 12 31 |
| | | | | | NOV. . | 11 6 47 | 11 3 16 |
| | | | | | DEC. . | 10 19 31 | 10 22 45 |
| 997. | JAN. . | 11 17 5 | 11 20 50 | 1000. | JAN. . | 9 8 16 | 9 17 29 |
| C. | FEB. . | 10 5 49 | 10 7 9 | G.F. | FEB. . | 7 21 0 | 8 10 2 |
| 15 10 0 | MAR. . | 11 18 34 | 11 16 45 | 15 3 27 | MAR. . | 8 9 44 | 8 23 37 |
| | APRIL | 10 7 18 | 10 2 15 | | APRIL | 6 22 28 | 7 10 14 |
| | MAY . | { 9 20 2 | 9 12 27 | | MAY . | 6 11 12 | 6 18 34 |
| | ○ | { 24 14 24 | 25 0 58 | | JUNE . | 4 23 56 | 5 1 28 |
| | JUNE . | 8 8 46 | 8 0 5 | | JULY . | 4 12 40 | 4 8 8 |
| | JULY . | 7 21 30 | 7 13 37 | | AUG. . | 3 1 24 | 2 15 38 |
| | AUG. . | 6 10 14 | 6 5 0 | | SEPT. . | 1 14 8 | { 1 0 59 |
| | SEPT. . | 4 22 58 | 4 21 38 | | OCT. . | { 1 2 52 | { 30 13 3 |
| | OCT. . | 4 11 42 | 4 14 39 | | | { 30 15 36 | 30 4 8 |
| | NOV. . | { 3 0 26 | 3 7 6 | | NOV. . | 29 4 20 | 28 21 55 |
| | ○ | { 17 18 48 | 17 7 31 | | DEC. . | 28 17 4 | 28 17 13 |
| | DEC. . | 2 13 10 | 2 22 15 | | | | |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (○ Full Ecl.) | True New Moon. (○ Full Ecl.) |
|--------------------------------------|---------|------------------------------------|------------------------------------|--------------------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1001. E. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1004. B.A. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| March. <i>d. h. m.</i> 15 9 15 | JAN. . | 27 5 48 | 27 12 27 | March. <i>d. h. m.</i> 15 2 42 | JAN. . | 24 20 58 | 24 14 34 |
| | FEB. . | 25 18 32 | 26 6 2 | | FEB. . | 23 9 42 | 23 3 56 |
| | ○ | { 12 12 54 | 12 9 4 | | MAR. . | 23 22 26 | 23 18 13 |
| | MAR. . | { 27 7 16 | 27 20 51 | | APRIL | 22 11 10 | 22 9 30 |
| | APRIL | 25 20 0 | 26 8 39 | | MAY . | 21 23 54 | 22 1 3 |
| | MAY . | 25 8 44 | 25 17 51 | | JUNE . | 20 12 38 | 20 16 22 |
| | JUNE . | 23 21 23 | 24 1 22 | | ○ | { 5 7 0 | 4 23 51 |
| | JULY . | 23 10 12 | 23 8 20 | | JULY . | { 20 1 22 | 20 6 46 |
| | AUG. . | 21 22 56 | 21 15 50 | | AUG. . | 18 14 6 | 18 19 59 |
| | ○ | { 5 17 18 | 5 18 56 | | SEPT. . | 17 2 50 | 17 8 7 |
| | SEPT. . | { 20 11 40 | 20 0 46 | | OCT. . | 16 15 34 | 16 19 29 |
| | OCT. . | 20 0 24 | 19 11 53 | | NOV. . | 15 4 18 | 15 6 30 |
| | NOV. . | 18 13 8 | 18 1 37 | | DEC. . | { 14 17 2 | 14 17 24 |
| | DEC. . | 18 1 52 | 17 17 49 | | ○ | { 29 11 24 | 29 14 54 |
| 1002. D. | JAN. . | 16 14 37 | 16 11 43 | 1005. G. | JAN. . | 13 5 46 | 13 4 12 |
| 15 15 4 | FEB. . | 15 3 21 | 15 6 20 | 15 8 31 | FEB. . | 11 18 31 | 11 15 1 |
| | ○ | { 1 21 43 | 2 0 32 | | MAR. . | 13 7 15 | 13 2 5 |
| | MAR. . | { 16 16 5 | 17 0 5 | | APRIL | 11 19 59 | 11 18 51 |
| | APRIL | 15 4 49 | 15 15 53 | | MAY . | 11 8 43 | 11 2 47 |
| | MAY . | 14 17 33 | 15 5 6 | | JUNE . | { 9 21 27 | 9 17 1 |
| | JUNE . | 13 6 17 | 13 15 49 | | ○ | { 24 15 49 | 24 17 0 |
| | JULY . | 12 19 1 | 13 0 41 | | JULY . | 9 10 11 | 9 8 13 |
| | AUG. . | { 11 7 45 | 11 8 43 | | AUG. . | 7 22 55 | 8 0 1 |
| | ○ | { 26 2 7 | 25 19 5 | | SEPT. . | 6 11 39 | 6 15 32 |
| | SEPT. . | 9 20 29 | 9 16 53 | | OCT. . | 6 0 23 | 6 6 16 |
| | OCT. . | 9 9 13 | 9 2 1 | | NOV. . | 4 13 7 | 4 19 56 |
| | NOV. . | 7 21 57 | 7 12 40 | | DEC. . | { 4 1 51 | 4 8 32 |
| | DEC. . | 7 10 41 | 7 1 7 | | ○ | { 18 20 13 | 18 14 16 |
| 1003. C. | JAN. . | 5 23 25 | 5 15 23 | 1006. F. | JAN. . | 2 14 35 | 2 20 3 |
| 15 20 53 | FEB. . | { 4 12 9 | 4 7 12 | 15 14 20 | FEB. . | 1 3 19 | 1 6 31 |
| | ○ | { 19 6 31 | 19 16 37 | | MAR. . | 2 16 3 | 2 16 9 |
| | MAR. . | 6 0 53 | 6 0 0 | | APRIL | { 1 4 47 | 1 1 21 |
| | APRIL | 4 13 37 | 4 16 55 | | ○ | { 30 17 31 | 30 10 51 |
| | MAY . | 4 2 21 | 4 9 2 | | MAY . | 30 6 15 | 29 21 23 |
| | JUNE . | 2 15 5 | 2 23 33 | | ○ | { 14 0 37 | 14 8 59 |
| | JULY . | { 2 3 49 | 2 12 8 | | JUNE . | { 23 18 59 | 23 9 56 |
| | ○ | { 31 16 33 | 31 23 1 | | JULY . | 28 7 43 | 28 0 25 |
| | AUG. . | { 15 10 55 | 14 21 56 | | AUG. . | 26 20 27 | 26 16 39 |
| | SEPT. . | { 30 5 17 | 30 8 48 | | SEPT. . | 25 9 11 | 25 9 51 |
| | OCT. . | 28 18 1 | 28 18 17 | | OCT. . | 24 21 55 | 25 2 53 |
| | NOV. . | 26 19 29 | 26 14 42 | | NOV. . | 23 10 39 | 23 19 3 |
| | DEC. . | 26 8 13 | 26 2 10 | | ○ | { 8 5 1 | 7 18 53 |
| | | | | | DEC. . | { 22 23 23 | 23 9 29 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|---|---------|------------------------------------|------------------------------------|--|---------|------------------------------------|------------------------------------|
| A.D. 1007. E. March. <i>d. h. m.</i> 15 20 8 | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1010. A. March. <i>d. h. m.</i> 15 18 35 | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| | JAN. . | 21 12 7 | 21 21 57 | | JAN. . | 18 3 18 | 18 6 52 |
| | FEB. . | 20 0 51 | 20 8 30 | | FEB. . | 16 16 2 | 17 1 20 |
| | MAR. . | 21 18 36 | 21 17 26 | | MAR. . | 18 4 46 | 18 17 32 |
| | APRIL | 20 2 20 | 20 1 22 | | ○ { | 1 23 8 | 1 18 5 |
| | MAY . | 19 15 4 | 19 9 12 | | APRIL { | 16 17 30 | 17 6 46 |
| | JUNE . | 18 3 48 | 17 17 55 | | MAY . | 16 6 14 | 16 17 9 |
| | JULY . | 17 16 32 | 17 4 33 | | JUNE . | 14 18 58 | 15 1 25 |
| | AUG. . | 16 5 16 | 15 17 46 | | JULY . | 14 7 42 | 14 8 37 |
| | SEPT. . | 14 18 0 | 14 9 40 | | AUG. . | 12 20 26 | 12 15 51 |
| | OCT. . | 14 6 44 | 14 3 37 | | SEPT. . | { 11 9 10 | 11 0 7 |
| | NOV. . | 12 19 23 | 12 22 22 | | ○ { | 26 3 32 | 26 6 45 |
| | DEC. . | 12 8 12 | 12 16 31 | | OCT. . | 10 21 54 | 10 10 12 |
| | | | | | NOV. . | 9 10 38 | 8 22 40 |
| | | | | | DEC. . | 8 23 22 | 8 13 37 |
| 1008. D.C. 15 1 57 | JAN. . | 10 20 57 | 11 8 49 | | | | |
| | FEB. . | 9 9 41 | 9 22 31 | | | | |
| | MAR. . | 9 22 25 | 10 9 33 | 1011. G. 15 19 24 | JAN. . | 7 12 7 | 7 6 42 |
| | APRIL { | 8 11 9 | 8 18 21 | | FEB. . | 6 0 51 | 6 0 55 |
| | ○ { | 23 5 31 | 23 6 54 | | MAR. . | 7 13 35 | 7 19 2 |
| | MAY . | 7 23 53 | 8 1 41 | | APRIL | 6 2 19 | 6 11 48 |
| | JUNE . | 6 12 37 | 6 8 33 | | MAY . | 5 15 3 | 6 2 17 |
| | JULY . | 6 1 21 | 5 16 1 | | JUNE . | 4 3 47 | 4 14 15 |
| | AUG. . | 4 14 5 | 4 1 14 | | JULY . | 3 16 31 | 4 0 3 |
| | SEPT. . | 3 2 49 | 2 18 4 | | AUG. . | { 2 5 15 | 2 8 32 |
| | OCT. . | { 2 15 38 | { 2 3 59 | | SEPT. . | { 31 17 59 | 31 16 43 |
| | ○ { | 17 9 55 | { 17 11 40 | | OCT. . | 30 6 43 | 30 1 29 |
| | NOV. . | { 1 4 17 | { 31 21 39 | | NOV. . | 29 19 27 | 29 11 28 |
| | DEC. . | { 30 17 1 | 30 16 57 | | DEC. . | 28 8 11 | 27 23 3 |
| | | 80 5 45 | 80 12 20 | | | 27 20 55 | 27 12 19 |
| 1009. B. 15 7 46 | JAN. . | 28 18 29 | 29 6 5 | 1012. F.E. 15 1 13 | JAN. . | 26 9 39 | 26 3 12 |
| | FEB. . | 27 7 13 | 27 21 8 | | ○ { | 10 4 1 | 10 15 27 |
| | MAR. . | 28 19 57 | 29 9 7 | | FEB. . | { 24 22 23 | 24 19 19 |
| | ○ { | 12 14 19 | 12 9 6 | | MAR. . | 25 11 7 | 25 12 2 |
| | APRIL { | 27 8 41 | 27 13 23 | | APRIL | 23 23 51 | 24 4 30 |
| | MAY . | 26 21 25 | 27 1 50 | | MAY . | 23 12 35 | 23 19 49 |
| | JUNE . | 25 10 9 | 25 8 29 | | JUNE . | 22 1 19 | 22 9 27 |
| | JULY . | 24 22 53 | 24 15 28 | | JULY . | 21 14 3 | 21 21 19 |
| | AUG. . | 23 11 37 | 22 23 51 | | ○ { | 5 8 25 | 4 19 17 |
| | SEPT. . | 22 0 21 | 21 10 34 | | AUG. . | { 20 2 47 | 20 7 48 |
| | ○ { | 6 18 43 | 7 0 34 | | SEPT. . | 18 15 31 | 18 17 36 |
| | OCT. . | { 21 13 5 | 21 0 14 | | OCT. . | 18 4 15 | 18 3 26 |
| | NOV. . | 20 1 49 | 19 16 47 | | NOV. . | 16 16 59 | 16 13 45 |
| | DEC. . | 19 14 33 | 19 11 28 | | DEC. . | 16 5 43 | 16 0 47 |

JERUSALEM CIVIL TIME.

| Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) | Mean Vernal Equinox. | Month. | Mean New Moon. (O Full Ecl.) | True New Moon. (O Full Ecl.) |
|----------------------------|---------|------------------------------------|------------------------------------|----------------------------|---------|------------------------------------|------------------------------------|
| A.D. 1013. | | <i>d. h. m.</i> | <i>d. h. m.</i> | A.D. 1016. | | <i>d. h. m.</i> | <i>d. h. m.</i> |
| D. | JAN. . | { 14 18 28 | 14 12 36 | A.G. | JAN. . | 12 9 38 | 12 20 20 |
| March. | ○ | { 29 12 50 | 30 1 38 | March. | FEB. . | 10 22 22 | 11 7 45 |
| <i>d. h. m.</i> | FEB. . | 13 7 12 | 13 1 13 | <i>d. h. m.</i> | MAR. . | 11 11 6 | 11 17 16 |
| 15 7 1 | MAR. . | 14 19 56 | 14 14 47 | 15 0 28 | APRIL | 9 23 50 | 10 1 25 |
| | APRIL | 13 8 40 | 13 5 19 | | MAY . | { 9 12 34 | 9 8 59 |
| | MAY . | 12 21 24 | 12 20 33 | | ○ | { 24 6 56 | 24 16 22 |
| | JUNE . | 11 10 8 | 11 12 0 | | JUNE . | 8 1 18 | 7 17 0 |
| | JULY . | { 10 22 52 | 11 3 0 | | JULY . | 7 14 2 | 7 2 28 |
| | ○ | { 25 17 14 | 25 7 28 | | AUG. . | 6 2 46 | 5 14 20 |
| | AUG. . | 9 11 36 | 9 17 4 | | SEPT. . | 4 15 30 | 4 4 59 |
| | SEPT. . | 8 0 20 | 8 6 0 | | OCT. . | 4 4 14 | 3 22 10 |
| | OCT. . | 7 13 4 | 7 17 59 | | NOV. . | { 2 16 58 | 2 16 52 |
| | NOV. . | 6 1 48 | 6 5 23 | | ○ | { 17 11 20 | 17 5 26 |
| | DEC. . | 5 14 32 | 5 16 27 | | DEC. . | { 2 5 42 | 2 11 89 |
| | | | | | | { 31 18 26 | ... |
| 1014. | JAN. . | 4 3 17 | 4 3 17 | | | | |
| C. | FEB. . | 2 16 1 | 2 13 55 | 1017. | JAN. . | { ... | 1 5 6 |
| 15 12 50 | MAR. . | 4 4 45 | 4 0 34 | F. | FEB. . | { 30 7 10 | 30 20 10 |
| | APRIL | 2 17 29 | 2 11 37 | | | 28 19 54 | ... |
| | MAY . | { 2 6 13 | 1 23 39 | 15 6 17 | MAR. . | { ... | 1 8 27 |
| | | { 31 18 57 | 31 13 3 | | APRIL | { 30 8 38 | 30 18 8 |
| | JUNE . | 30 7 41 | 30 3 47 | | | 28 21 22 | 29 1 58 |
| | ○ | { 15 2 3 | 15 0 9 | | ○ | { 13 15 44 | 13 18 6 |
| | JULY . | { 29 20 25 | 29 19 28 | | MAY . | { 28 10 6 | 28 8 50 |
| | AUG. . | 28 9 9 | 28 11 24 | | JUNE . | 26 22 50 | 26 15 49 |
| | SEPT. . | 26 21 53 | 27 2 51 | | JULY . | 26 11 34 | 26 0 1 |
| | OCT. . | 26 10 37 | 26 17 22 | | AUG. . | 25 0 18 | 24 10 30 |
| | NOV. . | 24 23 21 | 25 6 44 | | SEPT. . | 23 13 2 | 22 28 55 |
| | DEC. . | 24 12 5 | 24 18 52 | | OCT. . | 23 1 46 | 22 16 28 |
| | | | | | ○ | { 6 20 8 | 6 21 16 |
| 1015. | JAN. . | 23 0 49 | 23 5 49 | | NOV. . | { 21 14 30 | 21 11 8 |
| B. | FEB. . | 21 13 33 | 21 15 40 | 1018. | DEC. . | 21 3 14 | 21 6 48 |
| 15 18 39 | MAR. . | 23 2 17 | 23 0 47 | E. | JAN. . | 19 15 59 | 20 1 29 |
| | APRIL | 21 15 1 | 21 9 46 | | FEB. . | 18 4 43 | 18 17 56 |
| | MAY . | 21 3 45 | 20 19 31 | 15 12 6 | MAR. . | 19 17 27 | 20 6 23 |
| | ○ | { 4 22 7 | 5 8 7 | | APRIL | 18 6 11 | 18 17 51 |
| | JUNE . | { 19 16 29 | 19 6 50 | | MAY . | 17 18 55 | 18 2 1 |
| | JULY . | 19 5 13 | 18 20 16 | | JUNE . | 16 7 39 | 16 8 55 |
| | AUG. . | 17 17 57 | 17 11 46 | | JULY . | 15 20 23 | 15 15 38 |
| | SEPT. . | 16 6 41 | 16 4 47 | | AUG. . | 14 9 7 | 13 23 17 |
| | OCT. . | 15 19 25 | 15 22 20 | | SEPT. . | 12 21 51 | 12 8 50 |
| | NOV. . | { 14 8 9 | 14 15 18 | | OCT. . | 12 10 35 | 11 21 3 |
| | ○ | { 29 2 31 | 28 16 8 | | NOV. . | 10 23 19 | 10 12 15 |
| | DEC. . | 13 20 53 | 14 6 47 | | DEC. . | 10 12 3 | 10 5 58 |